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CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE

ALEXANDER D. TROWBRIDGE Acting Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

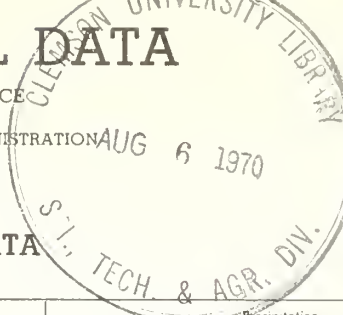
ENVIRONMENTAL DATA SERVICE

HAWAII

JANUARY 1967

Volume 63 No. 1

CLIMATOLOGICAL DATA



Station		Temperature										Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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CLIMATOLOGICAL DATA

HAWAII
JANUARY 1967

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Station	Temperature										Precipitation																	
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date			No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
											Max		Min.						Total	Max. Depth on Ground	Date	1.0 or More	.50 or More	1.00 or More				
											31° or Above	32° or Below	32° or Below	0° or Below														
ISLAND OF HAWAII																												
HAINA 214	74.9	58.6	66.8	- 2.7	82	31*	52	12			0	0	0	0	8.69	- 3.63	2.65	12	.0	0		12	4	2				
HAWAII VOLCNS NP HQ 54	65.5	48.1	56.8	- 1.3	71	28*	42	12*			0	0	0	0	5.35	- 6.87	1.63	12	.0	0		10	3	2				
HILO WB AIRPORT	79.9	63.9	71.9	1.1	89	24	58	13			0	0	0	0	8.04	- 3.78	2.05	11	.0	0		14	6	2				
HUEHUE 92A															2.77	- 1.36			.0	0								
KAINALIU 73B	76.3	58.3	67.3		80	25	54	12*			0	0	0	0	1.84	- 2.12	.59	2	.0	0		7	1	0				
KAMUELA AIRPORT	69.8	51.0	60.4		76	30	44	7			0	0	0	0	3.95		2.60	12	.0	0		6	1	1				
KEAAU 92	78.4	60.6	69.5	- .8	85	25	57	12			0	0	0	0	8.76	- 3.80	2.27	12	.0	0		13	5	4				
KEHENA RESERVOIR 176.1															10.51		3.00	5	.0	0								
KONA AIRPORT 68.3	80.5	62.1	71.3		82	29*	60	30*			0	0	0	0	7.71		.24	15	.0	0		3	0	0				
KUKUIHAELE HIC 199															9.55	- 3.42	2.30	5	.0	0		13	5	3				
KULANI CAMP 79	61.6	40.8	51.2		69	25	33	23			0	0	0	0	11.16		3.90	12	.0	0		10	6	3				
PAHALA 21	78.7	58.6	68.7	- .3	85	22	55	12*			0	0	0	0	1.28	- 6.75	.78	12	.0	0		3	1	0				
POHAKULOA 107															1.90				.0	0								
PUAKO 95A															1.99		1.01	12	.0	0		2	2	1				
PUU WAAWAA 94.1															1.94	- 1.29	.86	17	.0	0		3	2	0				
UMIKOA 118															13.43	- 6.27	4.13	5	.0	0				4				
WAIKAE SCD 88.2															12.34		2.80	5	.0	0		12	8	4				
ISLAND			64.9												6.13				.0									

SPECIAL WEATHER SUMMARY

The outstanding weather event of the month was the uncommonly heavy fall of snow which, beginning late on the 11th, blanketed the upper reaches of the State's higher mountains, Mauna Kea, Mauna Loa, and Haleakala. Described by residents as the heaviest and lowest snowfall in memory, the snow line reached to 9,000 ft. on Haleakala and to 7,800 ft. on the southeastern slope of Manua Kea. Patches of snow were observed down to 7,000 ft. on Mauna Loa. Hundreds of residents of Hawaii Island drove up the mountain slopes to see and romp in the snow fields.

On the summit of Haleakala, ice up to 6 inches in thickness snapped power and television lines and made roads impassable. Many lower-lying areas had heavy rain. At the Ranger Station, at an elevation of 7,000 ft. on Haleakala, 7-1/2 inches fell within a few hours on the night of the 11th. In Hawaii Island's Waimea district, the downpours did \$25,000 damage to crops and fields, while strong winds accompanying the rains in the Puna area toppled papaya trees and scarred tender vegetables.

The thunderstorms which brought the snow and

rain were associated with a small low pressure area centered directly over the State, and the snow itself with a freezing level which, on the Hilo sounding, dipped below 8,000 ft., an unusually low height for the latitude.

The month contained two other noteworthy events. On the night of the 5th, surf reported to be from 20 to 35 ft. high, pounded the eastern coasts of Hawaii Island, causing the highway at Hilo Bay to be closed for several hours, slightly wetting the interiors of two hotels, and doing \$16,000 of damage to the sugar mill of the Pepeekeo Sugar Company at Hakalau on the north Hilo coast. Early on the afternoon of the 14th, thunderstorms accompanying a cold front deposited hailstones, some of them as big as marbles (unusually large for Hawaii), at Makawao on Haleakala's northwestern slopes.

Despite the heavy rains of January 11 and 12, only a few gages greatly exceeded their monthly means, while virtually all of Oahu and Hawaii Island's southeastern sector, from Volcano National Park to South Point, received less than half their average rainfall.

Saul Price
Regional Climatologist
P. O. Box 3630
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
JANUARY 1967

Station		Total	Day of Month																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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HAWAII
JANUARY 1967

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DAILY PRECIPITATION

Continued

HAWAII
JANUARY 1967

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAMUELA AIRPORT	3.95	.02			.14	.14	.02	.01	.04	.29	.02	.21	2.60	.02	.06	.02					.04	.04	T			.23	.03	T					
KAPAPALA RANCH 36	2.59	.07											.50	.05																			
KAPOHO LANDING 935	8.93																																
KAHUANA 88.1	10.92	1.63	1.65	.13	.47	2.23	.15			.23			.22	2.03																			
KAWAUNU LOWER 193	25.06						12.28							10.38																			
KEAAU 92	8.76	1.67	.38	.04	.42	1.03	.35			.10			.04	2.27																			
KEALAEKUA 26.2	2.43	.03	.68	.04	.15	.80							.04	.18																			
KEHEHA 181.2	15.40																																
KEHEHA RESERVOIR 176.1	10.51				2.40	3.00	.25			.52	.03	.13	2.40																				
KIOLAKAA A 7 F 6	1.73																																
KIPA 89.2	11.52	2.90	.94	.35	.60	2.30	.22			.44	.01	.15	1.77																				
KOHALA 179A	7.49				2.12	1.54	.25			.02			.01	1.50																			
KOHALA MAULILI 176	8.85				2.53	2.03	.39			.07		.01	1.70																				
KOHALA MISSION 175.1	7.48	.20	.37	.34	1.42	1.37	.18			.04	T	1.49	T	5.42																			
KOLAKA LOWER 196	12.97						5.70																										
KONA AIRPORT 68.3	.71	.22	T										.22																				
KUKAIUA 222	10.66	.83	.65	.18	.67	2.33	.37	.07	.09	.50	.09	.24	3.25	.35	.03	.23																	
KUKUIHAELE NIC 199	9.55	.30	.82	.19	1.18	2.30	.31	.12	.41	.04	.13	2.17																					
KUKUIHAELE MILL 206	8.66	.18	.52	.12	.73	2.30	.21	.08	.27	.04	.15	2.60																					
KULANI CAMP 79	11.16	1.68	1.89	.20	.79	.82	.08	.03		.10		.14	3.90																				
KULANI MAUKA 76	3.47	.49	.24	.05	.56							1.27	.45																				
KULANI SCHOOL SITE 78	10.27						8.10							2.00	.15	.02																	
LANIHUA 68 C	4.29		2.55			.06								.55	.15	.74																	
MAUKA 2	3.01		1.97		.19					.01	.08				.06																		
MAUNA LOA SLOPE OBS	.46											.28			.01	.10	.07																
MIDDLE HOLUALOA 68.1	1.72		.89									.40				.28	.15																
MIDDLE PEN 147.1	1.72												1.72																				
MOAULA 18	1.70																																
MOUNTAIN VIEW 91	11.77	2.96	.71	.05	.74	2.35	.40		.80	.05	.29	1.66																					
NAALEHU 14	1.14				.15	.01	T						.57																				
NAPOOPOO 28	2.17		.63							1.24																							
NAULU FOREST 38.6	4.45		1.61	T	.04	.01			.40	.04			1.66																				
NIULII 179	7.58				2.52	1.30	.38		.11			.01	1.70																				
OKALA 223	8.86	.69	.42	.21	.89	1.49	.47		.14	.21	.11	.07	2.82	.04	.16	.21																	
OPHIHALE 2 24.1	2.73	1.78	.10	.05	.21	T	.03	T				.12	T		.12	.06																	
OPCHIO LANO EST 91.5	14.34						7.94							3.61																			
PAALAHU 217	8.29	.37	.10	.20	.74	2.28	.12		.11	.36	.06	.17	2.95	.05																			
PAALUO 221	11.84	.63	.65	.15	1.12	2.54	.28	.01	.09	.57	.03	.47	4.00	.07	.03	.03																	
PAHALA 21	1.28	.06						.02				.78				.05																	
PAHOA 65	9.84	1.87	.43	.04	.47	1.45	.61			.20		.12	3.10																				
PAKAO 37	5.00																																
PAPAIKOU 144A	9.39	1.08	.39	.47	.15	1.27	.49			.20		.08	2.00																				
PAPAIKOU MAUKA 140A	12.43	2.06	.49	.35	1.11	2.64	.41		.78	.01	.11	2.11	.02																				
PEPEKEO MAKAI 144	8.67	.74	.44	.27	.78	1.33	.57	.01		.16	.03	.12	2.38	.01																			
PIIHONUA 89	20.00																																
POHAKULOA 107	1.90													1.20	.69	.01																	
PUKO 95A	1.99	.02											1.01			.88	.08																
PUU KAPU 192.1	6.35																																
PUU KIME 120	8.26																																
PUU LAU 102.1	1.61																																
PUU LEHUA 73	1.80																																
PUU MALI 113	4.64																																
PUUOKUMAU 167	9.24				2.65	2.90	.24		.30			.08	2.00																				
PUU OO 82	4.19	.92	.48	.15	.05	.30	.23	.05	.01	.12			1.17		.12																		
PUU WAHAA 94.1	1.94	T										.31				.65																	
SADDLE POAO 1 84	14.66						11.35							1.82																			
SOUTH POINT COPPAL 3	1.11													1.01																			
UNIKOA 118	13.43	.22		.61	1.40	4.13	.33	.05	.09	1.60	.05	.73	3.54	.17	.07																		
UPOLO POINT USCG 159.2	3.89	.10	.10	.13	.57	.68							1.89																				
WAIKAEA SCO 88.2	12.34	2.53	1.23	.08	.53	2.80	.23			.16		.60	2.07			.01																	

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages - percent				Number of days with precipitation								Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150TH MERIDIAN TIME				Trace	01-09	10-49	50-99	100-199	200 and over	Total			
HILO WB AIRPORT	27	1.2	8.7	23	E	12	77	72	67	76	3	4	8	4	1	1	21	47	6.1	
HONOLULU WB AIRPORT	6	5.8	9.3	34	NE	10	81	82	61	74	12	7	3	0	0	0	22	50	5.7	
KAHULUI WB AIRPORT	6	7.8	11.3	30	NE	10	78	78	60	73	11	8	2	0	1	1	23	66	5.6	
LIHUE WB AIRPORT	4	6.1	11.3	27	NE	03	83	81	71	79	6	9	9	0	2	0	26	46	6.7	

DAILY TEMPERATURES

HAWAII
JANUARY 1967

Station	Day Of Month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	64 54	65 53	65 55	61 52	56 48	55 48	48 47	59 46	58 48	58 47	56 50	55 49	62 41	61 45	63 42	68 43	65 46	67 48	67 49	69 49	68 51	65 47	67 42	67 47	61 53	62 50	65 45	64 48	60 48	65 53	62 46	62.2 48.1	
KILAUEA POINT 1133	MAX MIN	78 70	77 67	80 68	76 64	75 62	74 61	74 61	73 61	74 61	74 61	74 61	71 62	74 61	76 61	77 61	77 60	77 68	77 69	78 66	80 64	80 63	79 68	79 65	82 63	78 61	78 64	77 65	82 66	81 66	81 66	76 66	77.0 63.9	
LIHUE WB AIRPORT	MAX MIN	76 70	77 69	75 69	73 65	71 63	74 61	74 60	74 65	73 67	72 67	73 65	73 61	74 58	75 62	75 60	76 62	75 63	76 69	76 68	76 67	76 66	76 66	76 66	77 66	74 63	73 62	77 62	79 62	76 64	75 65	75 63	74.9 64.1	
MAKAHUEA POINT	MAX MIN	79 71	80 64	78 70	78 66	75 65	74 64	77 63	75 64	77 67	77 65	75 67	75 65	77 62	81 62	77 63	77 64	77 67	78 66	77 67	79 72	79 67	80 72	78 66	84 68	83 68	80 65	81 65	83 64	82 67	80 60	80 68	78.5 66.0	
MANA 1026	MAX MIN	85 70	84 70	84 69	83 65	80 66	76 57	76 57	80 58	80 58	78 56	80 56	78 59	81 59	78 61	82 60	82 60	81 59	82 60	82 60	81 59	82 58	82 59	82 59	82 59	79 64	75 64	78 64	79 65	82 65	83 60	76 63	80.2 60.7	
NIU RIOGE 1035	MAX MIN	79 59	80 58	80 59	80 59	73 53	71 54	73 56	74 55	77 55	76 53	78 55	78 56	77 55	75 56	78 55	78 56	79 57	79 56	80 55	80 56	80 59	79 60	79 58	79 59	74 61	76 60	77 60	79 60	78 60	77 60	77 60	77.4 57.5	
WAIHAI LOWER 1054	MAX MIN	75 66	75 60	76 60	71 58	70 58	72 58	75 52	75 60	71 58	71 58	70 60	74 58	77 53	72 58	73 57	77 53	76 53	76 62	76 61	76 62	76 62	77 61	77 55	80 67	80 60	73 60	75 55	80 59	77 59	77 60	76 58	75.0 58.7	
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	81 69	81 66	79 66	76 65	74 61	77 61	79 59	75 61	75 62	74 64	80 65	80 60	76 58	82 59	82 61	81 60	82 63	82 63	80 65	80 66	83 65	81 61	82 59	81 60	81 66	78 66	82 62	82 61	82 62	85 62	82 64	79 65	79.5 62.5
HONOLULU WBAP 703	MAX MIN	81 71	81 69	78 68	76 67	75 64	76 63	79 59	76 61	77 66	74 67	76 66	79 60	75 60	80 62	83 63	81 62	81 63	81 69	81 68	83 66	80 62	80 61	82 72	81 69	82 64	81 64	82 64	81 64	84 66	82 66	81 69	79.7 65.2	
HONOLULU SUBSTA 704	MAX MIN	79 72	78 68	77 69	74 65	72 64	74 64	76 62	73 65	73 67	72 68	72 65	78 60	76 65	73 66	79 63	78 67	79 69	77 70	77 69	79 70	78 68	78 67	79 68	79 68	79 68	79 68	82 67	79 68	80 69	80 70	76.9 67.2		
KAHUKU 912	MAX MIN	78 68	80 64	80 66	81 64	81 60	69 63				70 63	75 67	73 64	78 60	80 56		78 56	78 59	78 67	78 67	76 67				78 59	78 65	85 63	76 61	78 61			79 60	77.7 62.8	
KANEOME MAUKA 781	MAX MIN	77 70	78 67	78 67	72 67	72 62	73 62	75 63	78 65	74 66	74 66	72 66	69 67	77 64	78 61	74 63	77 63	75 65	78 61	77 67	75 67	77 65	78 66	78 65	80 63	79 66	73 65	75 66	76 65	80 64	81 63	80 67	76.3 64.9	
MAKAPUU POINT 724	MAX MIN	75 71	76 69	74 69	75 64	73 61	70 63	74 64	74 66	71 66	73 64	71 63	70 60	74 65	72 65	69 67	73 66	78 67	73 70	75 68	73 68	73 70	76 68	78 68	79 67	76 65	75 66	73 63	78 68	77 66	77 69	75.2 64.5		
OPAEULA 870	MAX MIN	77 70	75 69	75 67	72 65	70 62	73 61	75 63	73 63	75 66	71 64	68 59	68 59	77 56	76 61	76 57	76 57	79 57	76 59	76 64	69 62	79 64	75 59	75 59	77 59	79 62	72 58	75 59	79 59	78 59	79 60	74 62	74.7 60.9	
PRI WAIHAWA 820.2	MAX MIN	78 68	77 66	78 65	76 64	73 59	71 59	75 58	74 58	74 57	72 61	72 62	73 59	78 54	73 55	79 59	79 54	79 59	79 61	74 65	79 64				79 55	80 55	76 65	78 60	81 58	82 58	79 60	77.0 59.9		
WAIALUA 847	MAX MIN	78 64	78 63	76 66	80 64	74 58	73 57	75 60	76 65	74 56	72 56	75 63	77 55	78 56	76 59	78 55	79 56	80 58	79 56	76 58	76 62	78 63	80 61	81 58	81 58	83 67	75 60	77 59	78 60	82 60	81 62	77.6 60.1		
WAIKIKI 717.2	MAX MIN	83 71	81 67	83 66	81 64	77 63	73 58	80 59	82 61	76 65	78 65	73 65	75 58	82 58	81 62	74 60	83 59	84 62	82 68	83 67	81 66	84 63	83 61	83 59	83 65	85 67	81 62	84 61	83 62	83 63	82 62	83 64	80.8 63.0	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	79 70	77 65	77 68	73 68	71 64	73 62	77 63	75 66	73 64	72 64	72 61	71 64	75 62	75 63	74 65	76 66	78 67	76 65	76 68	74 65	76 69	75 69	80 64	79 64	77 64	73 65	74 64	77 64	79 65	81 64	77 65	75.5 65.1	
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	74 64	74 64	70 64	69 63	68 60	70 60	71 57	69 59	70 58	68 60	68 58	75 61	77 58	71 61	74 60	73 59	71 63	70 61	72 60	74 61	72 59	72 58	74 60	72 63	69 61	73 60	75 61	73 60	76 59	78 60	74 62	72.1 60.5	
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	58 45	56 44	55 45	53 43	59 36	56 35	55 32	60 37	59 41	58 37	47 34	45 34	55 35	52 35	55 38	53 37	54 38	57 45	63 47	69 42	69 42	66 41	66 35	64 38	62 42	52 48	57 41	57 42	53 39	66 40	60 42	57.8 40.3	
HALEAKALA SUMMIT 338.4	MAX MIN	48 36	44 33	47 38	42 36	49 35	51 33	50 34	53 30	53 30	44 24	32 20	34 21	34 29	34 28	36 32	40 28	40 34	50 38	50 42	56 42	53 37	56 41	57 37	53 32	44 34	42 38	46 38	56 42	54 42	54 39	52 39	46.9 34.3	
HANA AIRPORT	MAX MIN	76 69	80 67	80 70	80 66	71 61	59 59	75 56	76 60	76 66	74 68	77 64	77 70	78 69	77 59	77 62	76 61	80 67	80 67	77 69	77 65	78 67	79 65	78 67	78 65	80 62	75 62	79 65	80 61	80 63	79 65	82 65	77.5 64.4	
KAHULUI WB AP	MAX MIN	80 71	80 69	78 69	72 67	74 63	57 57	76 76	79 70	76 76	74 65	75 62	78 62	79 58	79 62	79 60	79 69	79 69	80 69	80 69	80 70	80 62	83 61	81 69	81 69	74 65	75 68	79 61	81 61	80 67	78.0 64.2			
KAILUA 446	MAX MIN	73 64	74 63	75 63	75 62	75 57	75 52	75 53	75 53	75 53	75 54	75 54	75 54	75 53	76 55	75 53	76 58	76 58	77 59	76 58	76 59	78 58	77 59	77 58	78 58	80 58	80 58	80 58	80 58	80 58	81 59	76.6 57.2		
KULA SANATORIUM 267	MAX MIN	70 56	72 53	70 54	69 53	65 48	66 48	65 48	65 48	70 48	71 50	64 50	67 50	68 50	66 50	69 52	68 54	68 54	70 54	69 54	68 52	68 53	67 52	69 52	73 53	78 58	85 55	68 52	70 53	71 54	73 55	68.6 52.3		
LAHAINA 361	MAX MIN	85 64	84 61	85 65	84 66	81 64	80 56	80 56	80 59	79 64	76 67	77 67	80 58	80 57	81 58	82 58	81 58	82 59	84 62	85 61	84 60	82 60	82 59	82 60	83 60	83 60	83 60	87 62	72 65	80 63	81 65	81 65	81.3 61.0	
WAILUKU 392	MAX MIN	80 68	80 66	79 66	72 64	75 62	77 60	78 57	78 62	77 64	76 65	74 61	80 59	80 57	81 57	79 60	80 62	79 66	79 67	79 66	81 70	81 67	81 67	81 64	85 59	70 61	76 64	81 61	82 61	83 60	84 61	82 67	79.0 62.8	

See Reference Notes Following Station Index

Station			Day Of Month																															Average		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF HAWAII																																				
HAINA 214	MAX	80	71	77	78	67	66	72	75	75	72	70	66	76	76	73	75	73	75	74	75	75	75	74	78											
	MIN	65	60	62	62	57	55	54	56	60	57	56	52	54	56	60	55	62	64	62	61	58	56	58	58	60	82	77	78	77	79	82			74.9	
HAWAII VOLCNS NP HQ 54	MAX	65	60	64	64	60	59	64	68	66	62	57	56	67	65	64	68	68	62	66	67	65	68	67	69	70	71	70	71	69	68	69			65.5	
	MIN	52	51	52	53	50	54	42	43	46	46	46	42	43	48	46	49	50	53	51	50	48	48	46	49	52	48	48	51	49	46	46			48.1	
HILO WB AIRPORT	MAX	79	80	79	76	70	76	78	78	76	75	73	84	79	81	80	78	80	80	82	82	79	82	89	80	83	85	83	82	85	82			79.9		
	MIN	67	66	67	67	64	60	59	60	70	68	63	59	58	61	64	62	65	67	65	64	63	79	82	84	61	65	64	64	68	62	67			63.9	
KAINALIU 738	MAX	78	75	75	76	75	73	74	74	76	77	73	74	73	75	76	78	77	78	75	76	75	77	77	78	80	78	78	79	78	79	78			76.3	
	MIN	62	60	59	59	57	55	54	56	57	56	56	54	55	57	59	58	58	59	62	60	62	67	57	58	61	59	59	57	60	59	60	61			58.3
KAMUELA 192.2	MAX	74	67	69	67	64	62	67	73	66	63	62	62	70	70	71	72	72	69	69	67	70	72	75	77	74	72	76	75	76	77	70			70.2	
	MIN	58	57	58	56	54	51	42	43	46	50	50	53	42	45	51	53	58	57	56	57	56	54	50	45	48	47	46	48	47	50	50			50.9	
KAMUELA AIRPORT	MAX	72	72	69	69	65	64	66	71	70	66	66	60	68	69	72	70	69	69	69	70	70	71	73	72	71	74	73	73	73	76	75			69.8	
	MIN	54	57	58	51	54	45	44	45	51	46	46	46	45	49	49	53	61	50	55	59	50	49	57	51	53	50	49	49	49	51	54			51.0	
KEAAU 92	MAX	78	78	78	78	75	68	77	77	77	78	73	70	83	79	79	79	80	77	78	77	78	78	78	78	85	81	83	83	83	83	82			78.4	
	MIN	63	63	63	63	61	59	58	58	58	61	60	57	58	59	59	59	61	64	62	62	61	61	61	62	61	61	63	61	61	61	61	61			60.6
KOHALA MISSION 175.1	MAX	76	76	76	75	67	68	73	76	76	73	72	71	76	76	75	77	76	75	75	75	76	76	76	78	80	78	80	81	79	79	79	79			75.7
	MIN	67	65	65	65	61	60	58	59	61	66	61	58	58	60	59	61	62	67	66	65	64	63	61	62	64	63	63	62	62	62	62	63			62.4
KONA AIRPORT 68.3	MAX	81	81	81	82	82	82	80	80	79	80	79	79	80	78	79	79	81	81	80	79	80	81	82	81	81	81	81	82	82	82	81	81			80.5
	MIN	68	67	67	67	64	63	62	60	60	60	61	61	60	60	61	60	60	62	61	62	62	61	63	60	60	61	62	62	63	60	64			62.1	
KULANI CAMP 79	MAX	62	61	61	60	57	55	59	61	62	63	53	56	59	62	64	60	62	62	60	61	61	60	63	64	69	61	68	66	66	65	66			61.6	
	MIN	46	44	48	48	47	38	34	37	36	38	39	38	38	37	38	41	42	46	44	40	36	36	33	35	38	44	43	46	42	39	45			40.8	
MAUNA LOA SLOPE OBS	MAX	45	44	48	45	47	50	50	52	46	38	38	35	42	38	40	40	46	51	51	56	54	50	52	50	51	53	54	54	55	50	47			47.5	
	MIN	33	31	33	29	29	29	30	31	27	27	22	22	24	28	29	27	32	36	36	35	36	30	34	31	32	36	34	36	32	33	30			30.9	
MOUNTAIN VIEW 91	MAX	71	71	72	72	68	63	71	74	72	70	67	64	77	77	73	76	75	76	73	73	73	75	70	75	81	80	80	80	79	79	78			73.5	
	MIN	61	58	59	60	57	54	50	52	58	55	54	52	52	53	60	57	55	58	58	58	56	59	55	57	56	56	55	54	57	58	56			56.1	
NAALEHU 14	MAX	78	79	80	80	77	77	77	77	78	77	77	78	78	78	78	81	77	78	78	78	78	78	78	77	79	81	80	80	80	80	80			78.5	
	MIN	61	62	63	62	64	59	59	60	60	59	58	59	60	60	60	61	64	67	65	64	64	63	63	64	62	65	63	63	64	64	66			62.2	
OOKALA 223	MAX	78	79	79	79	72	69	75	75	75	74	74	70	77	76	78	75	75	76	77	77	77	77	78	77	82	81	82	80	82	80			76.9		
	MIN	67	65	64	64	61	61	56	58	63	60	60	59	58	61	63	60	61	66	65	66	64	65	63	62	63	64	64	64	64	65	64			62.6	
OPIHIHALE 2 24.1	MAX	74	74	74	73	72	72	73	73	77	73	68	73	71	69	76	75	75	76	75	76	74	75	76	81	79	77	77	75	80	77	75			74.7	
	MIN	58	57	57	61	55	55	53	53	54	54	52	53	56	57	55	57	58	58	59	54	55	56	56	55	57	56	57	57	58	58	61			56.2	
PAHALA 21	MAX	79	79	83	81	77	76	77	77	77	78	78	81	78	80	76	79	78	77	79	78	82	85	77	78	79	76	79	81	80	80	79			78.7	
	MIN	63	60	61	60	60	55	55	55	59	56	56	55	56	58	60	59	59	61	58	59	59	58	59	58	58	60	60	61	61	59	60			58.6	
UPOLU POINT USCG 159.2	MAX	79	78	79	78	78	78	75	80	79	76	74	76	78	81	77	81	80	78	78	78	78	78	78	83	82	79	78	82	79	83	82			78.8	
	MIN	67	67	67	67	63	60	56	66	62	58	68	60	62	64	68	61	65	67	65	68	65	65	64	64	71	68	66	68	69	70	68			65.8	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE W8 AIRPORT	EVAP	.20	.18	.29	.23	.24	.15	.22	.10	.30	.38	.30	.26	.12	.00	.07	.10	.25	.22	.22	.19	.26	.18	.22	.00	.10	.30	.12	.10	.15	.21	.11	5.77
	WIND	131	182	205	279	259	151	97	61	194	238	260	231	77	60	63	51	49	140	171	111	93	87	55	100	63	59	53	43	54	42	46	370.4
	MAX	81	80	81	75	72	71	78	79	79	75	72	71	79	80	76	80	83	83	80	82	82	82	87	86	78	77	88	79	86	82	79	79.5
	MIN	67	66	66	64	59	59	59	59	60	69	60	61	58	61	59	59	63	64	65	65	66	65	60	60	60	61	60	61	64	65	63	62.2
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.15	.22	.14	.12	.17	.12	.11	.08	.12	.20	.23	.08	.10	.14	.04	.12	.14	.15	.15	.17	.11	.18	.18	.15	.15	.14	.11	.12	.15	.20	.13	4.37
	WIND	52	48	40	50	50	31	24	23	42	54	70	38	23	20	6	12	17	37	50	37	24	24	29	34	42	23	19	17	17	33	25	1011
	MAX	84	84	82	81	79	77	78	77	77	77	75	68	83	83	70	81	85	83	82	82	80	87	86	87	88	81	82	88	90	88	86	81.6
	MIN	67	66	65	64	60	60	60	60	59	58	59	60	60	59	62	61	61	63	66	64	65	63	62	61	68	64	63	65	65	65	66	62.6
* * * ISLAND OF HAWAII																																	
HILO W8 AIRPORT	EVAP	.13	.13	.12	-	.11	.20	.22	.12	.31	.32	.26	.39	.19	.03	.11	.10	.61	.05	.09	.20	.17	.00	.21	.19	.20	.18	.13	.16	.21	.18	.14	5.028
	WIND	79	61	93	114	83	77	88	112	212	222	169	99	65	51	60	63	41	42	46	56	61	45	64	84	78	61	65	64	76	70	56	2557
	MAX	80	82	78	74	73	80	81	79	76	72	61	81	81	72	77	80	77	79	78	79	81	75	82	84	83	86	86	85	83	84	79	79.0
	MIN	67	64	65	65	62	59	56	59	62	60	59	56	56	58	62	61	64	66	64	62	62	62	61	63	59	62	62	64	65	61	65	61.7

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 89° ON THE 24TH AT HILO WB AIRPORT, HAWAII

LOWEST TEMPERATURE: 20° ON THE 11TH AT HALEAKALA SUMMIT 338.4, MAUI

GREATEST TOTAL PRECIPITATION: 16.54 INCHES AT N WAILUA DITCH 1051, KAUAI

LEAST TOTAL PRECIPITATION: 0.46 INCH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST ONE-DAY PRECIPITATION: 10.50 INCHES ON THE 14TH AT INTAKE WAINIHA PC
1086, MAUI

STATION INDEX

HAWAII
JANUARY 1967

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER		
								TEMP.	PRECIP.	EVAP.	SPECIAL									TEMP.	PRECIP.	EVAP.	SPECIAL		
ISLAND OF KAUAI																									
ALDRIDGE RESER. 993	1400	02	KOOLA		21 57	159 32	1610					W. BRYDE SUGAR CO.	ISLAND OF LANAI											DOLE COMPANY	
ANAHOU 1111	1401	02	KOOLA		21 57	159 32	1114					LIHUE PLANTATION CO.	KANAPUO 690	A 1330	01	LANAII	1 20 53	157 00	1640					MAUI PINEAPPLE CO.	
BRIDLEWOOD STA 985	0240	02	KOOLA		21 56	159 32	720	7A				MC BRYDE SUGAR CO.	KANAPUO HARBOUR 658	A 1461	01	LANAII	20 57	157 00	1640	3A				DOLE COMPANY	
LAI LAI 914	0456	02	KOOLA		21 55	159 30	441	7A				MC BRYDE SUGAR CO.	LANAI CITY 672	A 5266	01	LANAII	20 50	156 55	1620	7A	7A			DOLE COMPANY	
KANAHUO RESERVOIR 1094	3104	01	KAWAII		21 55	159 32	350	7A				LIHUE PLANTATION CO.	LANAII 684	A 0999	01	LANAII	20 50	156 19	1510	6A				DOLE COMPANY	
LEELE 927	0470	02	KOOLA		21 54	159 35	163	6A				MC BRYDE SUGAR CO.	HANAH 694	A 5704	01	LANAII	20 53	156 55	1430	7A				DOLE COMPANY	
MAHUA 111	0995	01	KAWAII		22 07	159 19	253	7A				LIHUE PLANTATION CO.	MAUAE 676	A 6012	01	LANAII	20 46	156 55	1135	7A				DOLE COMPANY	
MAHUA 111	1038	02	KOOLA		22 05	159 26	8	7A				LIHUE PLANTATION CO.	MAUAE 685	A 5021	01	LANAII	20 47	156 52	2760	7A				DOLE COMPANY	
MAHUA TUNNEL 1 53	1172	01	KAWAII		22 05	159 28	1218	7A				GROVE FARM CO. LTD.													
HOPKINS 945	2161	01	WAIKOA		22 09	159 41	800	8A				LIHUE PLANTATION CO.													
												KEKHA SUGAR CO. LTD.													
LIHUE INTAKE 105	2222	02	LIHUE		22 02	159 28	1070	7A				LIHUE PLANTATION CO.	ISLAND OF MAUI												
LIHUE INTAKE 105	2222	02	LIHUE		22 02	159 28	1070	7A				LIHUE PLANTATION CO.	AIWAHI-252	A 0175	02	HANA	20 57	156 20	2060					ULUPALUKA RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANA AIRPORT	A 1285	01	LANAII	20 58	156 38	1050					MAUI PINEAPPLE CO.	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
KALAHUO INTAKE 1131	2074	01	HANA		22 11	159 24	400	7A				LIHUE PLANTATION CO.	HANALU 281	A 1148	01	HANA	20 41	156 01	325					KOALI RANCH	
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KALAHUO INTAKE 1131	2074																								

STATION INDEX

HAWAII
JANUARY 1967

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII												
NAPOOPOO 28	A 8697	04	S KONA	4	19 28	155 55	400	WI				KONA EXPERIMENT STA
NAULU FOREST 30.6	8731	02	PUNA	2	19 19	155 08	1400	VAR				HAWAII VOLCANOES NAT RS
NIULII 179	A 8808	01	N KOHALA	1	20 14	155 45	75	BA				KOHALA SUGAR CO
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A				LAUPAHEHE SUGAR CO
ORIMIHAE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A 7195	02	PUNA	2	19 34	155 00	445	VAR				BOARD OF WATER SUPPLY
PAALUO 217	7204	01	HAKAUA	1	20 05	155 28	415	7A				PARAU SUGAR CO
PAHALA 21	7312	01	HAKAUA	1	20 03	155 22	850	7A				HAKAUA MILL CO
PAHOA 65	7621	03	KAU	3	19 12	155 39	870	BA	BA			HAWAIIAN AGG CO
PAKAO 37	A 7643	03	KAU	3	19 22	155 38	5000	HQ				PUNA SUGAR COMPANY
PAPAIAKU 146A	7711	02	S HILO	2	19 47	155 06	200	7A				HAWAIIAN RANCH CO, INC.
PAPAIAKU MAUKA 140A	7721	02	S HILO	2	19 47	155 09	1400	7A				MAUNA KEA SUGAR CO
PEREKEO HAKAI 14A	8003	02	S HILO	2	19 51	155 05	100	7A				MAUNA KEA SUGAR CO
PIIMOUNA 89	A 8051	02	S HILO	2	19 44	155 10	1730	HQ				PEREKEO SUGAR CO
PUAKO 95A	A 8062	02	HAKAUA	1	20 45	155 32	8511	VAR	C			STATE DIV OF FORESTRY
POMAKULOA 107	A 8181	05	KOHALA	5	19 59	155 40	5	BA				STATE DIV OF FORESTRY
PUU KAPU 192-1	A 8383	01	S KOHALA	1	20 02	155 39	2870	HQ				STATE DIV OF FORESTRY
PUU KHE 120	A 8393	01	HAKAUA	1	19 54	155 24	7750	HQ				WILLIAM PAYNE
PUU LAU 102-1	A 8452	05	HAKAUA	5	19 50	155 36	7440	HQ				STATE DIV OF FORESTRY
												KUKAIUA RANCH CO
												STATE DIV OF FISH-GAME

↑ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHWESTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in $^{\circ}$ F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes"; "Daily Precipitation" table; and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24 hours ending at time of observation.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and in the Station Index.
 - No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
 - + And also on an earlier date or dates.
 - ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
 - * Amount included in following measurement, time distribution unknown.
 - / The letter "A" shown following station name in "Climatological Data" table; "Daily Precipitation" table; and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of the preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
 - B Adjusted to a full month.
 - J "Supplemental Data" table.
 - M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
 - R Amounts from recording gage.
 - T Trace, an amount too small to measure.
 - V Includes total for previous month.
- IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**
- AR Observation made after rain.
 - C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
 - MO Gage read once monthly; usually on the last day.
 - OC Gage readings at periods varying from a few weeks to several months.
 - S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
 - SS Observation time is near sunset.
 - VAR Observation time is variable.
 - W1 Gage read weekly or irregularly only.
 - W2 Gage read weekly and last day of month.
 - # Thermometers are generally exposed in a shelter located a few feet above and covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on line roof of a building.

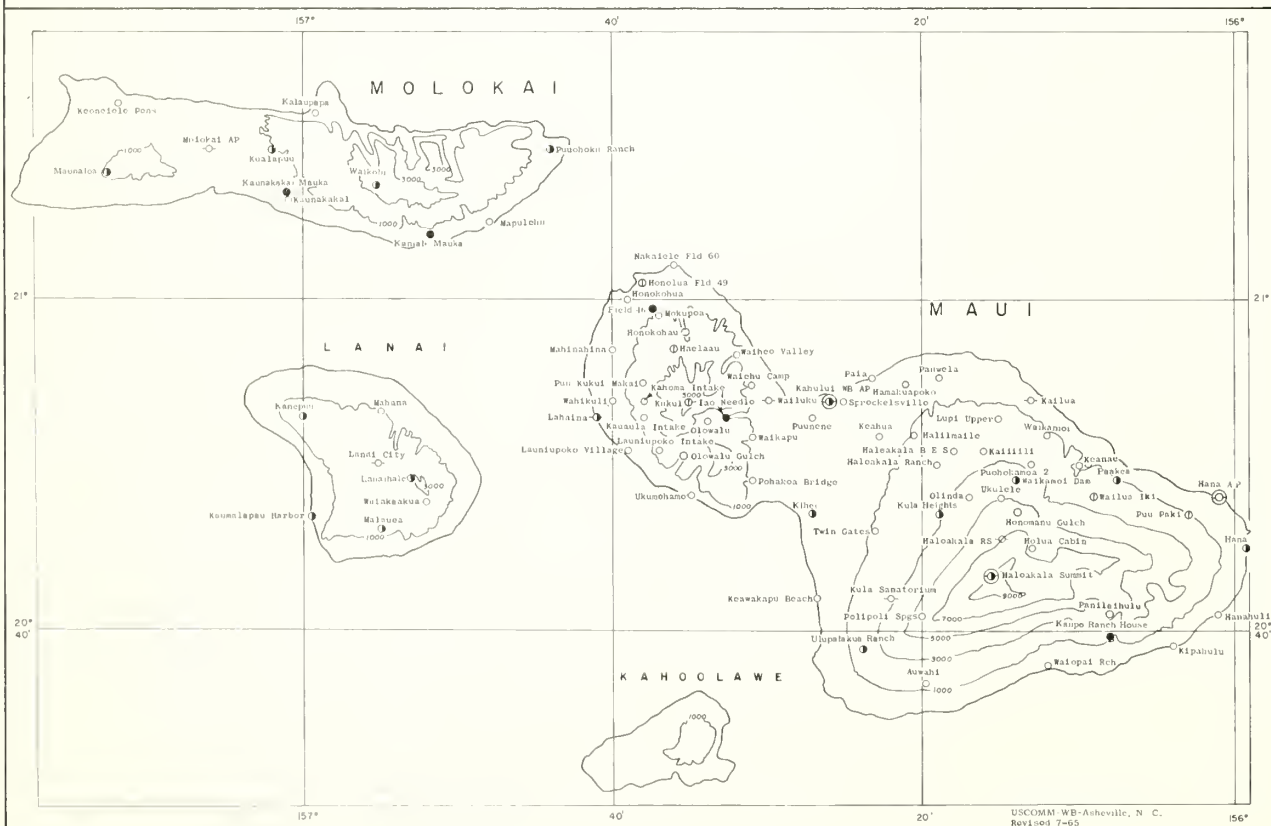
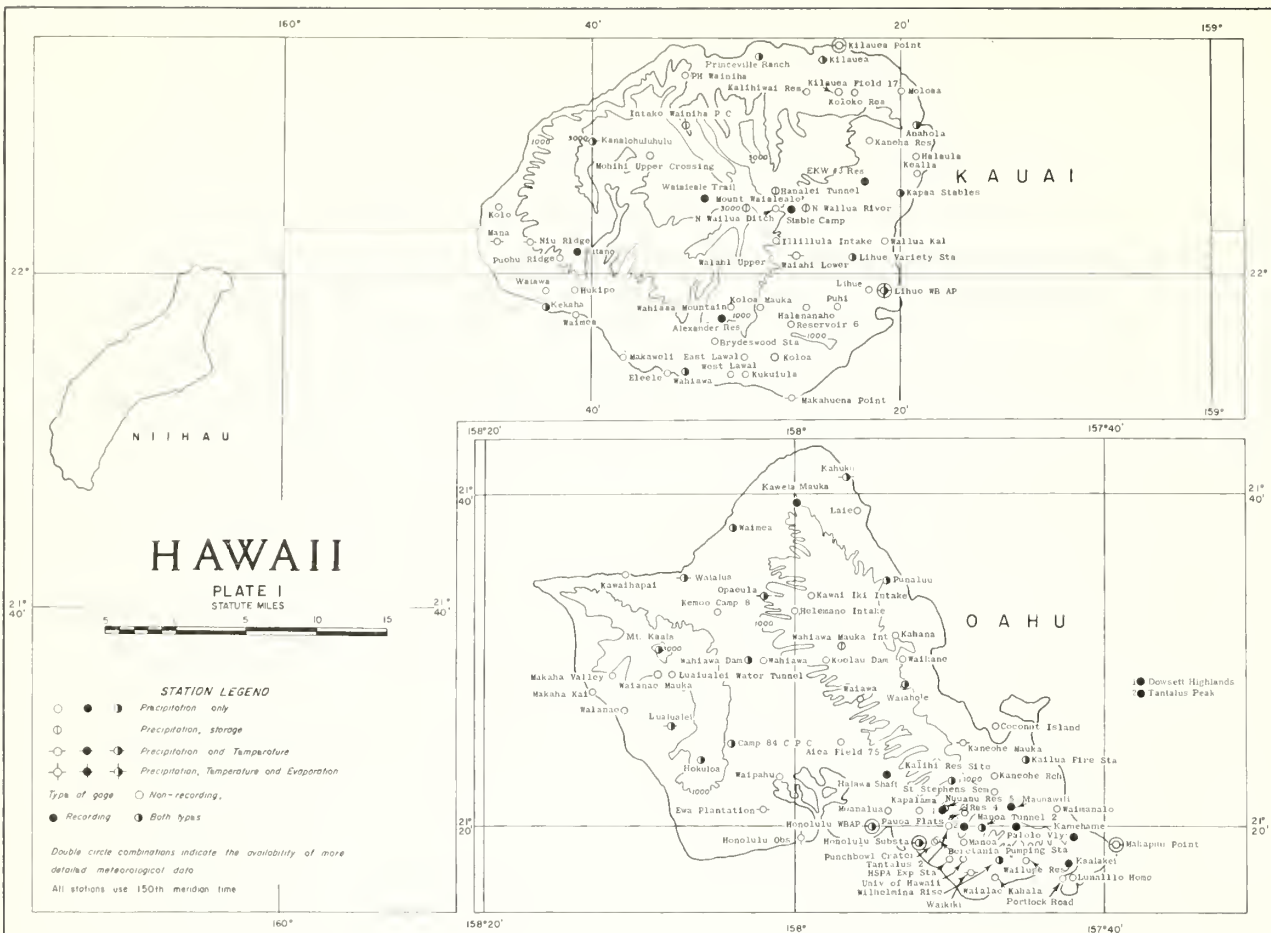
Stations appearing in the Index, but for which data are not listed in the tables, were either missing or received too late to be included in this issue.

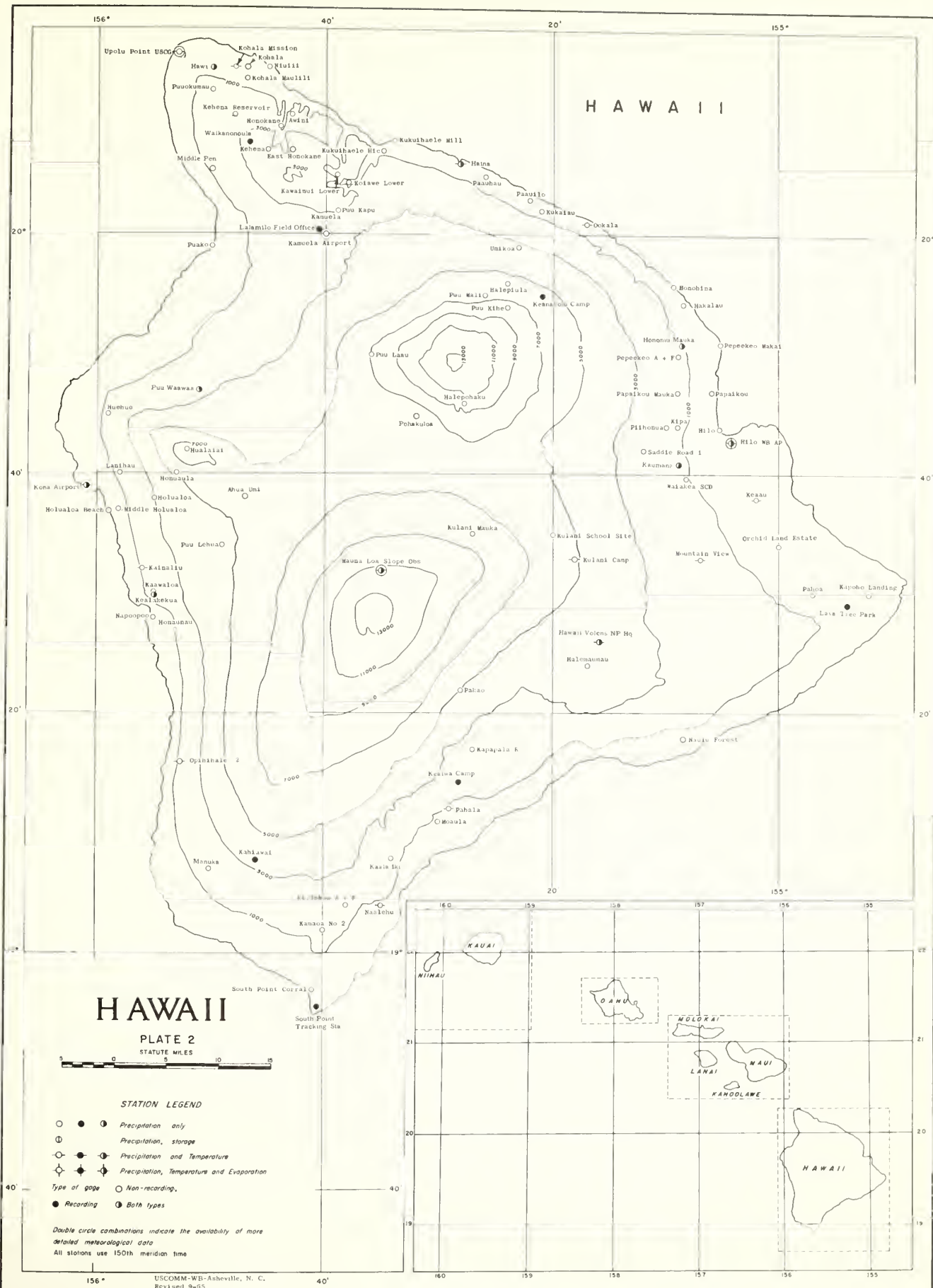
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, MONTHLY CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOM-188A-ASHKILL-5/2/67-625





CLIMATOLOGICAL DATA

HAWAII

U. S. DEPARTMENT OF COMMERCE

ALEXANDER B. TROWBRIDGE, Acting Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

ENVIRONMENTAL DATA SERVICE

FEBRUARY 1967

Volume 63 No. 2

CLIMATOLOGICAL DATA

Station		Temperature								Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days					Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
										Max.								Min.					Total	Max. Depth on Ground	Date	Total	1/10 or More	1/51 or More	1.00 or More																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
										90° or Above	80° or Above	70° or Above	60° or Above	50° or Above				40° or Above	30° or Above	20° or Above	10° or Above	0° or Above								0° or Below	10° or Below	20° or Below	30° or Below	40° or Below	50° or Below	60° or Below	70° or Below	80° or Below	90° or Below																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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See Reference Notes Following Station Index

CLIMATOLOGICAL DATA

HAWAII
FEBRUARY 1967

CONTINUED

Station	Temperature										Precipitation													
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days					Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
									Max.		Min.							Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More	
									90° or Above	32° or Below	32° or Below	32° or Below	0° or Below											
ISLAND OF HAWAII																								
HAINA 214	77.4	60.3	68.9	- .6	80	27+	55	21	0	0	0	0	4.35	- 2.57	2.42	28	.0	0		5	2	1		
HAWAII VOLCNS NP HQ 54	65.8	50.4	58.1	.2	70	7+	46	4	0	0	0	0	8.16	- 2.09	1.45	12	.0	0		13	6	3		
HILO WB AIRPORT	81.6	66.1	73.9	3.3	85	6+	55	21	0	0	0	0	10.35	- 2.59	3.47	11	.0	0		15	6	3		
HUEHUE 92A													4.59	1.88			.0	0						
KAINALIU 73B	75.9	59.1	67.5		80	19+	55	20	0	0	0	0	3.71	.32	1.38	17	.0	0		8	2	1		
KAMUELA AIRPORT	71.4	50.6	61.0		74	12+	46	22+	0	0	0	0	1.99		1.20	11	.0	0		3	2	1		
KEAAU 92	80.3	61.9	71.1	.8	85	13+	55	21	0	0	0	0	8.59	- 4.84	1.22	10	.0	0		16	9	1		
KEHENA RESERVOIR 176.1													7.61		4.10	28	.0	0				1		
KONA AIRPORT 68.3	80.9	63.9	72.4		82	28+	62	27+	0	0	0	0	1.24	.75	1.3		.0	0		2	1	0		
KUKUIHAELE HIC 199													3.51	- 3.80	2.15	28	.0	0		6	1	1		
KULANI CAMP 79	62.8	44.0	53.4		67	25	38	25	0	0	0	0	12.43		2.96	16	.0	0		12	8	6		
PAHALA 21	77.5	60.0	68.8	.0	81	21	53	21	0	0	0	0	4.78	- 1.81	2.53	10	.0	0		6	3	2		
POHAKULOA 107													.00		.00		.0	0		0	0	0		
PUAKO 95A													1.82		1.79	10	.0	0		1	1	1		
PUU WAAWAA 94.1													2.44	- .13	.68	2	.0	0		7	2	0		
UMIKOA 118													5.11	- 5.44	3.88	28	.0	0				1		
WAIKAE 500 88.2													13.07		2.64	28	.0	0		13	7	6		
ISLAND			66.1										5.51				.0							

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 88° ON THE 10TH AT LAHAINA 361, MAUI

LOWEST TEMPERATURE: 23° ON THE 21ST AT HALEAKALA SUMMIT 338.4, MAUI

GREATEST TOTAL PRECIPITATION: 25.40 INCHES AT PUOHOKAMOA 2 343, MAUI

LEAST TOTAL PRECIPITATION: .00 INCH AT POHAKULOA 107, HAWAII

GREATEST ONE-DAY PRECIPITATION: 7.68 INCHES ON THE 28TH AT WAIKAMOI OAM 336, MAUI

See Reference Notes Following Station Index

HAWAII
FEBRUARY 1967

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DAILY PRECIPITATION

HAWAII
FEBRUARY 1967

Continued

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF MOLOKAI																																		
KALAUAPAPA 563	5.90			T			.10		T	.10	.10	*	*	3.00	T	T			T	*	1.30	T			T	*	*		.20	1.10				
KAUNAKAI 536	3.24	*	*	*	*	*	*	*	*	*	3.24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
KEONELELE PENS 551	2.75	*	*	*	*	*	*	*	*	.65	*	*	*	1.62	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
KUALAPUU 534	4.71	*	*	*	*	*	*	*	*	.28	.40	*	*	2.00	*	*	*	*	*	*	.02	*	*		.02	*	*	*	*	.48	*	*		
MAPULEHU 542	3.25			.46	.04	.25			.21	.50	.60	.17							.26				.13		.13					.40	1.59			
MAUNALO 511	2.33	.01	.02	.04				.22		.05	.52	*	*	.97					*	*	.03			.03	.01	*	*	*	.40	.03				
MOLOKAI AP 524	4.55	*	*	*	*	.37	*	*	*	.30	.75	1.03	1.04		T	T					T			.05	T	*	*	*	.40	.98				
PUUOHOKU RANCH 542.1	2.30	*	*	*	*					.10	1.10	.05								*	*				.25	*	*	*	.30	.13	*	*		
WAIKOLU 540	8.46	*	*	*	*		.23	*	*	*	*	*	*	2.85	*	*					1.74	*	*	*	*	*	*	*	3.64	*	*	*		
ISLAND OF LANAI																																		
KANEPUU 690	2.38			T													1.93	*	*	*	*	*	*		.13	*	*	*		.32				
KAUHALAPAU HARBOR 658	1.09										.25	*	*	.83	*	*					*	*	*					.01						
LANAI CITY 672	2.98	.44	.06	*		T	.02	T		.02	.91	*	.24	*	*	*			.28	T	*	*	*			.03	*	*	.01	.97				
LANAIHALE 684	3.88	*	.09	*	*	*	*	*	*	.53	*	*	*	*	*	*	1.33	*	*	*	*	*	*		.43	*	*	*	*	1.50				
MAHANA 694	1.54	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.54				
MALAEUA 676	.62																.46	*	*	*	*	*	*	*	*	*	*	*		.16				
WAIKAEKUA 685	2.91	*	*	*	*		.35	*	*	*	.45	*	*	.94	*	*					.11	*	*	*	*	*	*	*	.47	.59				
ISLAND OF MAUI																																		
AUWAH18252	1.01				.22		.60	.23		.03	.50	.94	.50	.12	.28							.06	*	*	.05		.12			.50				
HALEAKALA B E 5 434	3.51	*	*	*	*	*	.43	*	.03	.18	.35	.29	.17	*	*	.13	*	*	*	*	*	*	*	*	*	.06	*			.417				
HALEAKALA RANCH 432	2.83			.11		.28	T			.13	.12	.26	.17	T	*	.18	.02	*	*	*	*	*	*	*	T	*	*		.03	1.53				
HALEAKALA SUMMIT 338.4	1.44								.05	.25			.37		.30	.17													T	.30				
HALIMAILE 423	3.82			*	*		.40			.15	.34	*	*	.50		.01	.01	.01	.01	.04	.01	*	*	.04	*	*	*	*	.05	2.27				
HAMAKUAPOKO 485	4.57				.01	.90				.22	.56	.40	.10	.08	.14	.08	.20	.03	.46	.05	.07	.07	*	*	.14	.03	.13	.02	.07	.81				
HANA 354	2.50	.02				.07			.50	.25	1.05	.01	.07	.06	*	*			.25				.07					.08						
HANA AIRPORT	5.40		.01	.17	.25	.10	.02		T	.34	.44	.34	.13	.01	.01	.20	.14	.07	.22				T	.18	.05					.11	.09			
HANAHULI 281	2.87			T	.11	.16	.02		T	.34	.44	.34	.13	.01	.01	.20	.14	.07	.22				T	.18	.05					.45				
HOLUA CABIN 259.5	3.17	*	*	*	*	*	.98	*	*	*	*	*	*	*	*	*	*	.14	*	*	*	*	*	*	*	*	*	*	*		2.05			
HONOKOHU 480	14.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		8.00			
HONOKOHU 493	3.82	.12	.01	*	*	*	.09	*	*	.31	.23	*	*	1.98	.03	*	.02	*	*	*	.17	.03	*	.06	.06	*	*	*	.25	.46				
HONOHANU GULCH 341	5.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.30	*	*	*	*	*	*	*	*	*	*	*		5.00			
KAHOMA INTAKE 374	10.53	*	*	.15	*	*	*	*	*	*	*	*	*	9.30	*	*	*	*	*	*	*	*	*	*	.78	*	*	*	*					
KAHULUI WB AP	2.13					.07	*	T		.28	1.30	T	T	T	T	T	T	T	.02	.02	T	.01	T	*	*	*		.43	T					
KAILIILI 436	14.34	*	*	*	*	*				.56	.88	1.34	1.18	.22	.19	.58	.73	.01	.23	.05	.26	.03		.30	.04	.32	.02	.13	1.18					
KAILUA 442	8.47	*	.04	.03	.02	.02	.10	.01	*	.24	.7	*	*	*	*	*	*	.16	*	*	*	*	*	*	*	*	*	*	*					
KAIKULA INTAKE 375	3.33	*	*	*	*		.07	T		.03	.04	1.90	.05								.03			T		.03	T		.75					
KEAHUA 410	2.90																																	
KEANAE 346	22.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		22.30			
KEAWAKAPU BEACH 260.2	4.49									.72	.05	.77	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
KIMEI 311	4.40		.10		.16	.20			.26	.33	.71	.26	.24	.12	.11	.21	.11	.32						.10	.11	.08	.24		.06					
KIPAHULU 258	1.43				.04					.09	.85																		.74					
KULA HEIGHTS 323.2	2.09	.03	.02		.20	.20	.22			.25	.20	.73	.02						.02						.10			.10						
KULA SANATORIUM 267	.66									.26	.24	.06																						
LAHAINA 361	2.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		.10				
LAUNIPOKO INTAKE 376	5.17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
LAUNIPOKO VILLAGE 372	16.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		.02			
LUPU UPPER 442	16.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		16.20			
MAHINAHINA 466	4.37	*	*	*	*	*	.60	*	.22	.52	.90		.03	.02	.06					.14	*	*		.08	*	*	*	*		.30	2.10			
MAKALELE FLO 60497	4.06	*	*	*	*	*	.77	.01	.20	.22	*	*	.57	T	.02	T					T	*	*	*	*	*	*	*	*		.23	.55		
OLINDA 332	4.03	T	*	*	*	*			.06	.03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		.08	2.16		
OLDWALU 296	.09	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
OLDWALU GULCH 377	2.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		2.20			
PAKKEA 350	20.67	.07	.10		.11	.89			.77	1.96	3.28	2.06	.86	.48	1.43	2.24	.03	.84	.08	.36	.02			.48	.11	.37	*		.413					
PAIA 406	2.25				T	.45			.12	.25	.46	.03	.03	T	.02	*		.10	.02	.05	.02	*	*	.11	.01	.04	T	.01	.53					
PANILEHU 259.2	1.33	1.33	*	*	*	*	*	*	.03	1.10	*	*	.81	.21	.43	.25	*	*	*	*	*	*	*	*	*	*	*	*	*					
PAUWELA 490	5.17	*	*	*	*	.62			T	.03	.86		.01							.68	*	*		.24	*	*	*	*	.25	1.15				
POHAKA BRIDGE 307.2	1.29																						.02					.15	.22					
POLIPOLI SPRINGS 267.2	3.37	1.98	*	*	*	*	*	.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		.26			
PUOHOKAMOA 2 343	25.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		25.40			
PUU KUKUI MAKAI 472	10.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		10.00			
PUUNENE 396	1.86						.03		.11	.05	1.07		.01	.01					.01	.03	.07				.01	.02		.07	.51					
SPRECKELSVILLE 400.2	2.30					.12			.20	.08	1.20	.01	.01															.01	.54					
TWIN GATES 261.3	1.75	*	*	*	*	*	*	*	*	*	1.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
UKULELE 333	5.2																																	

DAILY PRECIPITATION

Continued

HAWAII
FEBRUARY 1967

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAMUELA AIRPORT	1.99	*	T			T	T	T																									
KAPALAPA RANCH 36	.82	*	*	*	*	*	*	*	*																								
KAPOHU LANDING 935	6.24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KAUMANA 88.1	11.49	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KAWAII LOWER 193	3.17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KEAAU 92	8.59	.03	.27	.04																													
KEALAKEUA 26.2	3.06	.08	T	.01	.01	T																											
KEHENA 181.2	6.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KEHENA RESERVOIR 176.1	7.61	*	.35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KIOLAKAA A 7 F 6	9.58	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KIPA 89.2	16.27	.15	.11			.01	*																										
KOHALA 179.6	10.57	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KOHALA MAULILI 176	5.28	.14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KOHALA MISSION 175.1	6.89	T	.55	.07	.52	T																											
KOIAKE LOWER 196	1.96	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KONA AIRPORT 68.3	1.24																																
KUKAIAU 222	5.97		.08	.03																													
KUKUIHAELE HIC 199	3.51					.24																											
KUKUIHAELE MILL 206	3.52					.17																											
KULANI CAMP 79	12.43	.03	.03	.03	.05	.05	.07																										
KULANI MAUKA 76	1.67																																
KULANI SCHOOL SITE 78	-																																
LANIHAI 68 C	6.04	.52	.03	.07	.77	-	-	-	-																								
MAUKA 2	2.01																																
MAUNA LOA SLOPE OBS	.34	T					.19	T	.28	.66	.07	.04	.09	.05	.65	.94	.68	.03	.75	.23	.18	-	-	-	-	-	-	-	-	.20	.37		
MIDDLE HOLUALOA 68.1	3.06		.21	.19																													
MIDDLE PEN 147.1	1.21																																
MOAULA 18	3.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MOUNTAIN VIEW 91	12.27	.23	.22			.03	.38		.05	.35	1.30	.82	1.44	.85	.43	.91	1.08	.03	.29	.09	.56	.05	*										
NAALEHU 14	7.63	T	.02	.13	*	.02	T		.27	.61	.07			.30	T	T	.13	T	.29	.09	.10	T	*										
NAPOOPOO 28	1.39																																
NAULU FOREST 38.6	8.24	.05	.22	.12	T				.01	.34	.90	1.15	2.85	.66	.08	*	.95	T	.09	.22	.03	*	*	*	*	*	*	*	*	*	*		
NIULI 179	5.94	*	*	*	*	.14	*	*		1.25	.20	*	1.63	*	*		.09	T	.09	.22	.03	*	*	*	*	*	*	*	*	*	*		
OKALA 223	5.13					.22	.01		.22	.42	.02	.02	.11	.09	.04	1.22	.01	.01	.04	.14	.01	.18	.22	.10	.12	*	*	*	*	*	*		
OPHIHALE 2 24.1	2.33		.02	*	.78	.40	.03	.07	.07	.01	.20	.05	.03	.02	.42	.04	T	.08	.01														
ORCHIO LAND EST 91.5	7.76	*	*	.41	*																												
PAAUHAU 217	4.20					1.11																											
PAAULO 221	5.65					.39				.36	.40	.08		.01	T		.01		.08	.06	.05												
PAHALA 21	4.78		.24	.02	.01					2.53	.58	1.00	.04	.06	.83	.83	.02	.06															
PAHOA 65	9.81	.10	.31	.21	.02	.25	.09	.10	.63	1.78	.64	1.15	.66	.83	.83	.04	.31	.10	.59	.03	.16	.07	.06										
PAKAO 37	4.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PAPAIOU 144A	8.90	.09	.04		.01	.18		.01	.34	.96	.09	3.48	.07	.32	1.01	1.00	.13	.10	.13	.02													
PAPAIOU MAUKA 140A	13.10	.16	.08		.01	.08		T	.41	1.44	.19	2.60	.86	.64	1.08	2.42	T	.45	.16	.33	.01	.08	.10	.01	.33	.01	.01	.01	.01	.01	.01		
PEPEKEO MAKAI 144	6.31	.11	*						.86	.72	.08	1.75	.22	.33	1.10	.12	.22	.18	.07	.02													
PITHONUA 89	22.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
POHAKULOA 107	.00																																
PUAKO 95A	1.82																																
PUU KAPU 192.1	1.05																																
PUU KIME 120	2.65																																
PUU LAU 102.1	1.12																																
PUU LEHUA 73	2.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU MALI 113	1.09																																
PUUOKUMAU 167	9.40	.50	*			.45			.80	1.00	*	.90	.43	*	*		.85	.09	.12	.22	.02												
PUU OO 82	5.46	.01	.01	.02	.13				.08	1.37	.10	.40	.16	.51	.20	.43	.04	.04	.02	.02													
PUU WAHAA 94.1	2.44	.65	.68	.17	.33	.10		.05	.03	.19	T	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20		
SAOULE ROAD 1 86	15.76	*	*	.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
SOUTH POINT CORRAL 3	3.69	*	*	.12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
UMIKOA 118	5.11					.39			.06	.17	.34	.08	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03		
UPOLU POINT USCG 159.2	4.03	.09		.50	.06	.06			.92	.52	.65	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03		
WAIKAE SC0 88.2	13.07	.45	.02		.04	.29	.02		.60	1.45	.04	2.05	1.24	.24	1.13	1.91	.27	.06	.13	.02	.01	.04	.10	.37	.03	.01	.08	.24	.54	.25	.25		

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages percent				Number of days with precipitation								Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150TH MERIDIAN TIME				Trace	01-09	10-49	50-99	100-199	200 and over	Total			
							150TH MERIDIAN TIME													
							2 AM	8 AM	2 PM	8 PM										
HILO WB AIRPORT	18	2.6	9.3	20	E	15	80	78	68	80	6	4	9	3	2	1	25	47	6.7	
HONOLULU WB AIRPORT	7	7.9	10.2	33	NE	28	78	79	61	73	10	5	4	1	1	0	21	40	6.3	
KAHULUI WB AIRPORT	7	8.4	10.7	31	NE	13	81	81	58	71	9	4	2	0	1	0	16	66	5.9	
LIHUE WB AIRPORT	7	7.5	11.6	23	E	28+	85	84	73	82	8	9	3	2	1	1	24	46	7.0	

DAILY TEMPERAT URES

HAWAII
FEBRUARY 1967

Station		Day Of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	67 44	65 44	66 42	66 40	68 43	68 49	69 48	70 43	70 43	67 47	65 56	61 56	66 55	67 55	65 55	66 56	69 49	66 47	67 49	62 54	62 41	69 41	69 54	67 49	70 46	67 45	64 53	61 49				66.4 48.3	
KILAUEA POINT 1133	MAX MIN	78 66	81 66	81 64	81 65	78 66	85 70	79 62	81 67	81 69	80 66	78 68	77 67	76 68	75 67	74 64	78 71	78 64	81 57	77 62	76 62	78 66	80 71	77 70	78 68	78 67	75 66	75 67	75 65				78.3 66.1	
LIHUE WB AIRPORT	MAX MIN	77 62	77 65	76 62	77 60	75 67	79 65	78 62	78 63	78 66	77 69	76 68	78 66	76 72	76 69	78 70	79 69	79 70	80 70	77 66	77 66	76 68	77 70	79 70	78 67	76 64	75 64	74 66	74 67				77.0 66.5	
MAKAHUEA POINT	MAX MIN	78 63	81 66	81 64	82 64	81 66	79 68	84 67	81 69	81 66	82 66	80 71	81 66	81 65	80 71	78 71	80 69	80 68	79 69	82 64	80 66	79 66	78 64	79 68	80 68	80 67	81 65	80 64	75 64				80.1 66.6	
MANA 1026	MAX MIN	78 58	79 63	83 63	83 62	82 63	83 64	84 81	81 62	81 62	86 66	79 65	80 68	82 63	81 68	81 66	82 66	81 63	80 63	81 56	80 56	82 56	82 58	81 63	81 62	79 63	80 62	82 58	83 56				81.4 62.5	
NIU RLOGE 1035	MAX MIN	78 59	77 59	78 60	78 60	79 59	80 58	80 63	80 60	80 60	80 62	79 62	80 62	80 61	77 65	79 63	80 64	80 59	80 59	79 58	78 55	78 55	78 56	79 56	79 57	79 58	79 58	79 57	79 58				79.1 59.5	
WAIHAI LOWER 1054	MAX MIN	77 57	78 58	80 55	83 55	78 57	79 58	80 58	78 57	76 59	76 62	75 57	75 59	74 65	75 65	75 65	76 65	76 60	77 62	77 60	75 60	75 60	75 55	75 60	76 60	76 58	78 58	72 57	72 58				76.4 59.1	
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	84 64	82 62	82 65	84 61	80 62	83 63	83 63	83 61	84 64	75 68	78 66	75 65	81 66	79 68	78 68	82 67	82 64	83 65	81 61	80 62	80 60	81 63	83 66	80 65	81 61	82 58	76 60	78 65				80.7 63.7	
HONOLULU WBAP 703	MAX MIN	84 67	82 64	81 67	82 63	81 67	82 65	84 66	83 66	84 70	76 69	82 67	76 66	82 68	83 70	80 69	83 69	83 68	83 67	82 63	80 67	79 65	81 68	83 70	82 68	81 63	80 62	74 65	80 66				81.2 66.6	
HONOLULU SUBSTA 704	MAX MIN	82 71	80 69	79 70	81 67	79 70	80 70	81 80	80 69	82 71	75 68	78 68	74 65	79 72	79 71	78 70	79 71	79 70	79 68	77 68	77 69	75 68	78 68	78 71	76 66	79 65	71 63	74 67				78.1 68.8		
KAHUKU 912	MAX MIN	78 66	79 68	78 64				79 61	80 64	80 69	79 66			79 64	79 66	78 66	77 70	79 69			78 65	77 66	76 66	78 66	78 68			79 59	73 65				78.2 65.8	
KANEHE MAUKA 781	MAX MIN	70 68	80 69	78 68	82 62	80 65	78 66	80 67	80 67	83 67	80 67	75 66	78 67	75 70	75 71	75 71	74 69	79 69	77 69	78 65	78 66	78 64	77 65	78 66	78 66	77 66	79 66	80 64	78 66				77.9 66.8	
MAKAPUU POINT 724	MAX MIN	76 68	75 70	78 67	80 66	77 66	76 68	79 67	78 70	77 69	76 68	74 67	76 68	74 67	75 69	78 70	75 68	74 67	77 69	76 67	77 69	77 65	75 66	76 66	76 66	79 66	78 69	71 65				76.2 67.8		
OPEAULA 870	MAX MIN	74 61	78 61	72 61	78 57	80 59	73 59	80 61	79 59	78 59	78 65	71 64	72 64	71 65	71 64	72 64	73 64	75 63	79 66	77 59	72 62	74 57	72 56	74 63	75 63	75 62	75 57	80 61	69 60				74.9 61.3	
PRI WAHIAWA 820.2	MAX MIN	78 60	81 60	79 61				82 58	80 60	82 60	80 65	73 64	75 64	77 63	77 65	78 65	76 65	79 65			79 60	78 56	79 57	79 57	79 64	78 58	80 56	73 61				78.4 60.9		
WAIALUA 847	MAX MIN	78 60	83 60	80 62	80 63	80 62	78 62	81 61	82 62	80 59	82 63	77 68	78 67	75 66	79 65	80 67	77 63	81 61	80 62	80 58	79 54	78 56	77 56	79 60	80 62	82 62	81 60	72 60				79.3 61.3		
WAIKIKI 717.2	MAX MIN	83 67	81 63	85 64	85 60	85 64	83 62	85 62	85 63	85 68	84 66	75 66	80 66	79 69	82 71	82 70	80 69	84 68	84 66	84 66	84 63	83 67	81 64	81 67	82 69	83 68	84 63	84 59	83 65	75 66				82.4 65.5
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	77 66	81 62	80 62	79 62	79 62	77 65	81 64	81 64	77 64	77 68	71 67	80 67	79 65	77 68	77 69	78 68	80 65	78 66	79 69	76 68	75 65	75 64	77 64	77 65	78 63	78 59	78 64	70 65				77.6 65.0	
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	75 62	74 59	77 61	76 60	73 63	76 61	76 64	74 62	74 60	72 63			76 62	72 62	75 61	76 61	74 64	74 61	72 63	76 62	72 59	73 63	74 61	73 57	74 59	72 61	74 58	75 61				74.2 61.2	
ISLAND OF MAUI																																		
HALEAKALA R5 338	MAX MIN	58 47	62 42	62 38	57 35	59 38	58 42	61 42	65 47	63 46	61 48	61 43	55 44	61 46	59 47	63 48	58 40	61 38	60 36	59 37	62 42	60 44	62 46	69 47	67 47	62 37	59 38	58 40	53 37				60.5 42.2	
HALEAKALA SUMMIT 338.4	MAX MIN	48 36	53 40	55 37				49 38	50 37	46 32	44 38		44 33	46 32	50 35	45 38	54 41			50 33	44 23	46 38	52 41	54 41			54 36	41 35				48.5 35.9		
HANA AIRPORT	MAX MIN	80 68	80 69	80 67	80 67	80 66	80 67	81 68	81 68	80 68	77 69	80 65	80 69	78 67	80 70	80 69	79 71	80 69	79 67	80 60	79 65	79 58	77 64	79 67	80 65	82 65	79 66	73 61	73 60				79.4 66.1	
KAHULUI WB AP	MAX MIN	80 64	82 62	82 63	79 61	78 62	80 63	83 61	81 58	79 70	80 69	82 65	82 65	81 65	81 67	82 67	82 65	82 58	82 64	79 66	78 66	76 62	81 68	81 68	82 60	80 63	78 61	73 62	76 67				80.1 64.0	
KAILUA 446	MAX MIN	76 65	75 65	77 62	77 58	78 57	78 61	78 64	78 67	78 71	78 68	78 66	75 67	72 65	75 65	72 60	72 64	75 64	76 64	76 59	76 60	76 61	76 56	76 62	76 62	77 62	77 63	77 62	77 59				76.4 62.7	
KULA SANATORIUM 267	MAX MIN	68 57	71 55	69 55	70 52	70 53	68 53	69 53	71 53	67 54	74 56	67 58	72 57	68 55	69 56	70 56	68 53	69 53	68 53	67 51	69 52	69 52	69 49	70 50	68 51	70 52	65 55	68 52	67 52				69.1 53.5	
LAHAINA 361	MAX MIN	81 63	83 61	82 62	83 66	84 66	84 67	84 62	83 63	84 60	88 68	79 63	83 65	85 65	82 63	80 64	85 62	83 60	86 61	83 59	84 60	84 53	81 61	83 60	84 61	83 62	84 58	83 61	80 62				83.1 61.8	
WAILUKU 392	MAX MIN	81 66	81 66	85 63				86 61	78 64	83 66	82 66	80 66		81 64	84 66	80 67	78 66	80 65	80 64	79 63	79 66	79 60	77 63	80 63	81 65	82 64	82 60	74 62				80.8 64.4		

See Reference Notes Following Station Index

Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF HAWAII																																	
HAIR 214	MAX MIN	79 64	78 58	79 58	77 59	80 61	78 60	80 60	78 60	75 63	76 60	77 59	80 61	78 64	77 65	75 64	75 64	77 58	77 60	78 58	75 55	78 55	77 57	77 61	73 59	76 58	77 62	80 59	79 62				77.4 60.3
HAWAII VOLCANO NP HQ 54	MAX MIN	66 52	65 51	66 51	70 46	70 49	68 48	70 50	68 49	69 52	64 52	67 56	64 55	61 53	61 51	61 53	61 52	64 48	68 51	67 49	65 49	65 48	64 47	66 50	64 49	67 51	68 48	69 50	65 50				65.8 50.4
HILO WB AIRPORT	MAX MIN	82 67	82 67	83 66	85 66	85 65	85 67	84 66	84 64	82 70	83 69	79 69	82 70	82 67	77 67	80 67	83 66	83 66	80 66	78 66	76 55	80 64	81 67	84 63	84 64	84 67	82 66	81 63	76 69				81.6 66.1
KAINALIU 73B	MAX MIN	72 61	80 60	78 58	79 61	77 58	79 60	79 61	75 59	76 58	78 62	74 61	77 59	76 62	74 59	71 62	75 59	75 61	76 59	80 56	74 55	75 57	75 56	75 57	76 58	73 60	76 58	75 57	76 61				75.9 59.1
KAMUELA 192.2	MAX MIN	72 54	73 52	76 47	75 50	77 56	76 57	79 57	72 57	69 57	74 58	70 53	76 54	72 57	72 55	70 50	75 53	74 47	70 50	69 55	67 54	65 53	68 56	68 54	71 49	74 51	75 47	70 50				72.4 52.8	
KAMUELA AIRPORT	MAX MIN	71 54	71 49	72 48	73 50	72 49	73 50	74 50	74 49	71 51	74 54	70 54	74 48	70 50	72 47	70 51	71 46	70 50	71 47	69 58	70 54	67 46	69 57	69 56	70 54	72 49	72 51	72 47	72 58				71.4 50.6
KEAAU 92	MAX MIN	80 64	81 65	80 63	83 63	83 63	83 63	82 63	80 62	80 62	79 64	85 65	85 65	85 65	80 64	75 64	76 65	80 59	81 60	81 61	77 55	74 56	77 56	74 61	81 61	81 61	81 61	79 62				80.3 61.9	
KOHALA MISSION 175.1	MAX MIN	77 63	77 64	78 62	78 62	79 64	78 65	79 66	77 66	75 66	76 66	77 64	82 68	78 68	76 67	74 66	73 66	77 65	78 64	76 63	76 64	75 59	75 66	75 66	76 63	77 63	79 62	77 62	75 62				76.8 64.1
KONA AIRPORT 68.3	MAX MIN	80 63	82 64	82 62	82 64	81 63	82 65	81 63	81 64	80 65	82 65	80 65	82 65	80 66	80 65	80 65	80 65	80 64	82 64	80 63	80 63	82 63	80 63	82 64	81 64	82 64	81 63	80 62	82 64				80.9 63.9
KULANI CAMP 79	MAX MIN	66 44	66 42	61 31	65 39	66 41	65 39	64 38	65 36	63 34	62 34	62 35	58 32	48 34	58 37	62 38	63 46	58 44	57 45	51 42	62 40	62 39	61 44	64 46	63 38	66 36	65 38	66 45	66 48				62.8 44.0
MAUNA LOA SLOPE OBS	MAX MIN	51 36	50 33	51 31	49 29	51 31	50 30	50 36	52 34	46 34	49 35	47 32	51 34	53 37	51 38	54 35	53 38	55 34	52 33	51 33	53 34	51 34	57 3	59 38	63 36	55 36	56 37	53 33	52 33				52.3 34.4
MOUNTAIN VIEW 91	MAX MIN	75 58	72 58	74 58	76 55	77 58	78 58	76 56	76 58	72 60	78 61	78 60	72 62	77 62	77 62	77 60	78 61	73 53	78 54	78 56	72 50	73 48	71 47	74 57	74 57	78 54	78 56	78 56	75 56				75.0 56.9
NAALEHU 14	MAX MIN	78 66	78 65	79 64	76 64	78 64	78 65	79 62	80 65	79 65	74 65	79 65	79 65	77 65	77 66	77 66	77 64	77 64	78 61	78 57	80 58	79 57	78 65	77 67	77 65	78 62	78 62	79 65				78.1 63.7	
OOKALA 223	MAX MIN	80 66	79 68	80 67	80 71	81 80	79 65	79 67	79 66	78 66	77 62	77 66	77 65	75 65	75 65	75 65	75 65	78 65	79 65	80 62	76 58	79 63	76 65	78 65	80 64	80 64	78 64	78 64				78.7 64.6	
OPINIMALE 2 24.1	MAX MIN	77 58	78 57	76 57	76 58	79 58	73 58	76 57	74 57	76 57	74 61	76 59	75 60	72 58	76 58	75 56	74 55	76 55	76 56	73 55	72 56	76 57	70 57	74 58	72 55	77 55	70 55	73 57	73 57				74.7 57.3
PAHALA 21	MAX MIN	76 63	75 60	77 62	78 59	78 69	79 60	79 60	78 55	78 56	77 61	75 63	75 63	75 63	77 63	76 64	75 60	78 61	75 60	77 58	76 53	78 55	80 55	78 57	79 58	77 60	79 60	75 60	79 60				77.5 60.0
UPOLU POINT USCG 159.2	MAX MIN	78 67	78 65	81 81	81 81	79 68	83 69	80 68	83 69	81 68	86 69	86 70	86 71	80 67	78 71	78 69	79 66	79 66	76 65	78 64	79 67	78 69	77 67	78 67	78 64	80 65	81 66	80 66	79 66				79.8 66.6

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WB AIRPORT	EVAP	.09	.20	.11	.21	.18	.14	.20	.19	.24	.07	-	.15	.23	.27	.23	.16	.29	.30	.22	.30	.38	.15	.18	.32	.17	.12	.37					5.88B
	WIND	40	52	42	46	80	50	56	48	105	157	118	61	105	140	136	116	108	82	61	115	170	205	134	108	66	41	98	251				2813
	MAX	79	87	86	87	83	83	83	88	85	85	82	82	81	79	76	82	86	87	85	86	87	82	83	82	86	81	80	77				83.3
	MIN	62	62	62	61	60	65	61	65	65	65	67	66	67	67	67	67	66	66	65	65	62	61	62	63	61	64	63	62				63.9
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.13	.18	.15	.15	.17	.15	.26	.15	.20	.34	.10	-	-	.19	.15	.11	.20	.17	.20	.18	.17	.25	.20	.22	.23	.15	.23	.19				5.19B
	WIND	22	35	21	21	24	27	17	31	44	61	32	29	35	42	41	49	37	31	26	32	47	43	56	55	38	21	25	62				1004
	MAX	81	87	87	90	87	87	90	87	85	86	76	77	77	81	80	81	86	87	87	87	86	83	84	83	87	89	89	81				84.6
	MIN	65	65	65	65	64	65	65	63	63	65	66	66	65	66	66	67	65	65	63	63	63	58	62	64	64	62	62	59				64.0
* * * ISLAND OF HAWAII																																	
HILO WB AIRPORT	EVAP	.12	.14	.18	.19	.18	.26	.19	.15	.07	.23	-	.14	.08	.06	.07	.19	.24	.22	.16	.21	.33	.18	.18	.25	.29	.09	.15	.10				4.828
	WIND	61	71	73	61	65	93	72	73	69	89	38	93	75	57	70	51	82	66	73	123	160	95	75	86	77	49	104	93				2194
	MAX	80	81	82	83	85	84	82	79	85	82	76	78	81	73	77	83	84	87	83	82	79	85	85	83	85	78	85	72				81.4
	MIN	68	65	63	61	62	64	64	62	68	66	67	67	66	64	65	66	59	64	62	64	57	60	64	61	64	64	62	62				63.8

HAWAII
FEBRUARY 1967

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STATION INDEX

HAWAII
FEBRUARY 1967

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL	
ISLAND OF HAWAII												
NAPOOPOO 28	A 6697	04	S KONA	4 19 28	155 45	400	WI					KONA EXPERIMENT STA
NAULU FOREST 38.6	A 6731	02	PUNA	2 19 19	155 08	1400	VAR					HAWAII VOLCANOES NAT PK
NIULII 179	A 6806	01	N KOHALA	1 20 14	155 45	75	6A					KOMALA SUGAR CO
ONOWA 223	A 7131	02	S HILO	2 20 01	155 17	430	7A					LAPAPHOE SUGAR CO
OPIMIMALE 2 24.1	A 7166	04	S KONA	4 19 16	155 43	1270	7A					MISS C LEONARD
OPCHIO LAND EST 91.5	A 7185	02	PUNA	2 19 34	155 00	445	VAR					BOARD OF WATER SUPPLY
PAIUMAU 217	A 7204	01	HAMAKUA	1 20 05	155 24	415	7A					PAIUMAU SUGAR CO
PAUULO 221	A 7312	01	HAMAKUA	1 20 03	155 22	800	7A					HAMAKUA MILL CO
PAWALA 21	A 7421	03	KAU	3 19 12	155 29	870	6A					HAWAIIAN AGP CO
PAHOS 65	A 7447	02	PUNA	2 19 30	154 57	670	6A					PUNA SUGAR COMPANY
PAAO 37	A 7647	03	KAU	3 19 22	155 38	5000	MO					HAWAIIAN PANCH CO. INC.
PAPAIOU 144A	A 7711	02	S HILO	2 19 47	155 08	200	7A					MAUNA KEA SUGAR CO.
PAPAIOU MAUKA 140A	A 7721	02	S HILO	2 19 47	155 09	1400	7A					MAUNA KEA SUGAR CO.
PEPEKEO MAUKA 144	A 8003	02	S HILO	2 19 51	155 10	100	MO					PEPEKEO SUGAR CO
PIIMONUA 89	A 8051	02	S HILO	2 19 44	155 10	1730	MO					STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2 19 45	155 32	6511	VAR					STATE DIVISION OF PARK
PUEKE 99A	A 8186	05	KOHALA	1 19 59	155 50	5	6A					WILLIAM PAYNE
PUU KAPU 192.1	A 8383	01	S KOHALA	1 20 02	155 39	2870	MO					STATE DIV OF FORESTRY
PUU KIME 120	A 8393	01	HAMAKUA	1 19 56	155 24	7750	MO					KUKAIAU PANCH CO
PUU LAU 192.1	A 8452	05	HAMAKUA	5 19 50	155 36	7440	MO					STATE DIV OF FISH-GAME

↑ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII"

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELATED DATA AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute wind speed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly, usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

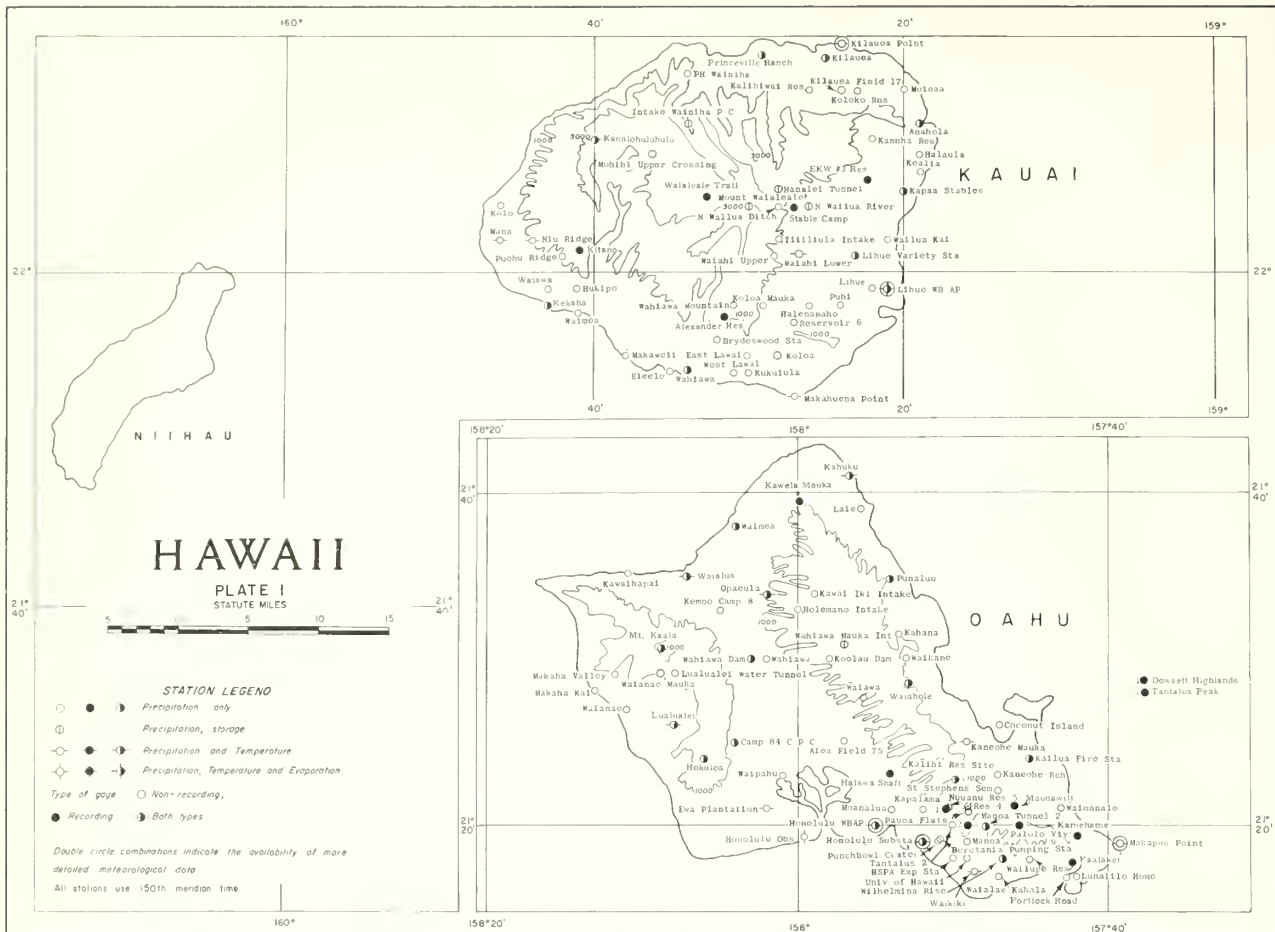
Stations appearing in the Index, but for which data are not listed in the tables, were either missing or received too late to be included in this issue.

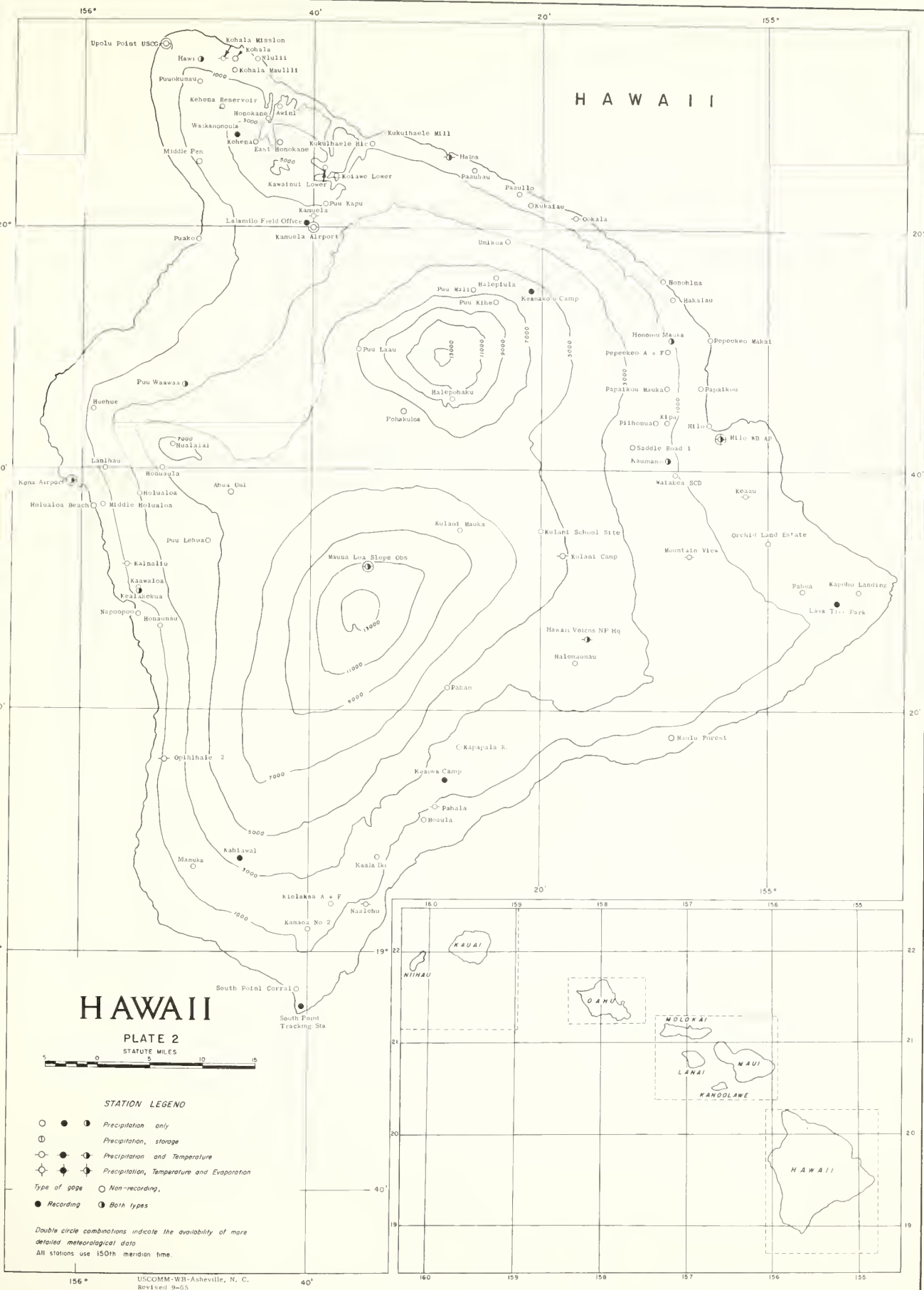
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, MONTHLY CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOM-ESSA-ASHEVILLE- 5/29/67-825





156°

40'

20'

155°

HAWAII

20°

40'

20°

155°

HAWAII

PLATE 2
STATUTE MILES

STATION LEGEND

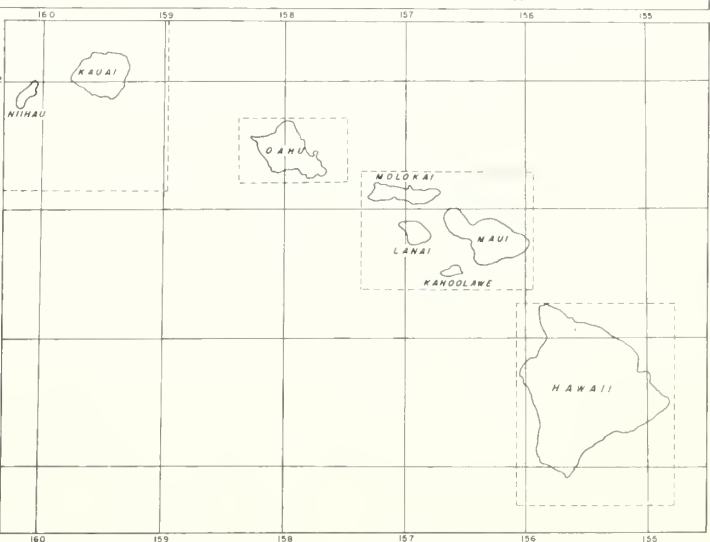
- ● ● Precipitation only
- ● ● Precipitation, storage
- ● ● Precipitation and Temperature
- ● ● Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording, ● Recording
- ● Both types

Double circle combinations indicate the availability of more detailed meteorological data.
All stations use 150th meridian time.

156°

USCOMM-WB-Asheville, N. C.
Revised 9-65

40'





CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE
ALEXANDER B. TROWBRIDGE, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

MARCH 1967

Volume 63 No. 3

CLIMATOLOGICAL DATA

Station		Temperature										Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days					Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
										Max.									Total	Max. Depth on Ground	Date	10 or More	.50 or More	1.00 or More																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
										90° or Above	80° or Above	70° or Above	60° or Above	50° or Above																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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CLIMATOLOGICAL DATA

HAWAII
MARCH 1967

CONTINUED

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										90° or Above	32° or Below	32° or Below	0° or Below										
* * * ISLAND OF HAWAII																							
HAINA 214	75.0	60.5	67.8	- 1.7	83	14	57	6+		0	0	0		10.41	- 1.85	3.85	14	.0	0		16	5	2
HAWAII VOLCNS NP HQ 54	65.8	52.1	59.0	1.1	72	14+	45	7		0	0	0		10.67	- 1.31	2.32	24	.0	0		21	7	1
HILO WB AIRPORT	80.7	67.4	74.1	3.5	88	17	62	7		0	0	0		9.46	- 5.24	2.62	10	.0	0		15	5	3
HUEHUE 92A														4.05	.34			.0	0				
KAINALIU 73B	77.2	60.4	68.8		81	18+	56	3		0	0	0		5.67	.39	1.97	28	.0	0		9	5	1
KAMUELA AIRPORT	71.6	55.0	63.3		76	17	49	9+		0	0	0		2.98		.60	18	.0	0		9	2	0
KEAAU 92	79.8	63.2	71.5	1.2	84	27+	60	6+		0	0	0		11.86	- 3.72	2.76	11	.0	0		19	6	4
KEALAKEKUA 26.2	77.7	62.4	70.1		81	27+	59	6+		0	0	0		5.52		1.96	28	.0	0		9	3	1
KEHENA RESERVOIR 176.1														5.67				.0	0				
KONA AIRPORT 68.3	80.3	64.3	72.3		82	28+	63	22+		0	0	0		1.57		.75	18	.0	0		5	1	0
KUKUIHAELE HIC 199														8.75	- 1.29	2.25	14	.0	0		16	4	2
KULANI CAMP 79	64.2M	47.4M	55.8M		69	12	41	3		0	0	0		7.85		1.10	11	.0	0		22	6	1
PAHALA 21	76.5	61.2	68.9	.0	81	26	56	2		0	0	0		7.88	2.30	1.13	25	.0	0		13	7	3
POHAKULOA 107														2.77				.0	0				
PUAKO 95A														2.33		.76	25	.0	0				0
PUU WAAHAA 94.1														7.29	4.08	1.20	20	.0	0		14	7	2
UMIKOA 118														7.09	- 5.64	1.65	23	.0	0		12	5	1
WAIKAEA SCO 88.2														15.42		3.25	27	.0	0		12		5
ISLAND			67.2											7.07				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 88° ON THE 17TH AT HILO WB AIRPORT, HAWAII

LOWEST TEMPERATURE: 29° ON THE 3D AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 45.80 INCHES AT KAHANA 883, OAHU

LEAST TOTAL PRECIPITATION: 1.57 INCHES AT KONA AIRPORT 683, HAWAII

GREATEST ONE-DAY PRECIPITATION: 7.66 INCHES ON THE 220 AT PAUOA FLATS 784, OAHU

SPECIAL WEATHER SUMMARY

March was wet on all the islands but Hawaii. Not only did rainfall in many parts of the State considerably exceed the mean, but the frequency of showers and extensive cloudiness gave the month a decidedly dull and rainy character. Honolulu Airport, for example, recorded only 40 percent of possible sunshine for the month, as against a March average of 71 percent, and had 16 days with .01 inch or more of rain -- twice the monthly mean of 8.

Two periods of heavy rain, centered on Maui, did considerable damage on that island on the 17th and 24th and produced high monthly totals. For example, Olowalu, an ordinarily dry station in southwestern west Maui, had 12.14 inches for the month, more than six times its March average and well over its annual mean of 11.63 inches.

The rain which began on Maui on the afternoon of the 17th was associated with a band of converging winds in advance of a slowly approaching cold front, and with a low pressure area higher in the atmosphere. Amounts were greatest in the northern portion of west Maui, where some 24-hour totals exceeded 7 inches. A recording gage in that area registered 7.25 inches in 5-1/2 hours, of which 6.60 inches fell in 3 hours (from 1:00 to 4:00 p.m.) and 3.25 inches in a single hour -- the latter intensity having the frequency of a 100-year storm.

The greatest damage occurred in the Napili Bay - Honokohua area, when a break in an earth-fill dam sent flood waters and mud racing through the ground floor of two resort hotels, damaging furnishings, grounds, and cars; and sweeping two automobiles out to sea. Beaches were severely eroded, part of one hotel undermined, and a large area left covered with mud and debris. The cost of restoring the hotels and the earth embankment was estimated at \$32,000 and \$18,000, respectively. Between Olowalu and Honolua, minor damage was done to highways, roads, and private property.

Flooding and erosion losses to crops and fields were estimated at over \$20,000.

During the rain, hail "the size of marbles" was reported from the Iao Valley-Wailuku-Haleakala Summit area, but it appears to have caused no damage.

On the 22d, downpours and local flooding hit the Napili area again, but this time did little harm.

Under the influence of surface and upper-level

regions of low pressure the unsettled weather continued. Heavy rain began on Maui again on the evening of the 23d. This time amounts were greatest in central Maui. Wailuku and Kahului Airport had 24-hour totals of approximately 5 inches and Haleakala Summit 5.90 inches, of which 4.15 inches fell between 2:00 a.m. and 8:00 a.m. on the 24th. Olowalu reported 6.50 inches, and Kihei 5.97 inches between midnight and 6:30 a.m. In contrast, the Honokohua coast, scene of the previous week's flooding, received storm totals of only 1 to 2 inches.

Rain and damage appeared to have been greatest in the Kihei area, where some 24-hour amounts exceeded 7 inches. Residents of its Kamaole section described the floods as the worst in many years. The inability of channels and road culverts to control the rain waters, and the blockage of stream outlets at Maalaea Bay, contributed to damage. Roads were impassable, with water between 2 and 3 feet deep in many places. Washouts were common, and crops, farm roads, and other farm improvements damaged. However, there were no personal injuries or loss of livestock or lives. Storm losses were estimated at \$65,000 for public and private property and \$6,000 for agriculture.

At Olowalu, damage was generally light. Olowalu stream overflowed at a debris-clogged highway bridge, temporarily closing the highway and badly damaging one home. Agricultural losses were limited to young cane plantings, diversion and irrigation systems, and farm roads. Private yards, patios, and garages were also damaged by silt and water.

For the March 17 to 24 storm period as a whole, Maui County estimated \$89,000 in damage to roads and bridges and total costs as high as \$250,000.

The rains of the 24th also brought minor flood damage to crops and roads on Kauai and Oahu, while in the Hoolehua area of Molokai, highway damage was estimated at \$1,000.

On the 29th of the month, strong winds did about \$5,500 damage to three boats in Kailua Bay, Hawaii, and produced 10- to 12-foot surf in Hana Bay, Maui.

By month's end, rainfall nearly everywhere was well above normal, although on Oahu and even on Maui a few scattered gages reported less than their March average. On the island of Hawaii rainfall was everywhere near normal.

Saul Price
ESSA-Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
MARCH 1967

Station		Total	Day of Month																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF KAUAI																																	
ANAMOLA 1111	A	10.74	.01				.32	.40	1.10	.38	.42			1.17	.15			.38				.81	.65	1.28	1.09			1.95	.60			.03	
BRYDESWOOD STA 985	A	13.16	T	.06			.60	.41	.05	.25	.01			.83	.01			.10				.62	2.23	1.75	1.17			1.04	.98	.01		.01	
EAST LAWA 934	A	13.16	T	.05			1.38	.27	.14	.19	T			.79	T			.22	.05			1.26	2.00	2.22	1.72			1.55	1.23	.02	.01	.06	
ELEETE 927	A	6.08		T			.38	.53	.01	.03	T			.75	.02							.39	1.34	.87	.38			1.10	.127	.01			
HALEAULA 1110	A	13.26					.30	.68	.05	1.50	.15			.70	.18			.09	.25			1.30	1.19	1.60	1.20			2.63	.60	.80		.04	
HALENAHMO 1006	A	13.10	.06	.09			.57	.75	.33	.64	.02			.65				.13				.55	2.06	1.76	1.36			2.47	1.51	.04	.03	.08	
HUKUHO 945	A	7.18					.42	.07		.07				.77				.18				1.22	2.31	.40	.56		.30		.70			.18	
ILILILUA INTAKE 1050	A	23.69	.10	.55	.08	.60	.20	.36	.30	.80			.62	.32				.35	1.65	.05	.32	1.30	2.00	2.34	1.27	1.49	1.95	2.00	.40	.25	.30	.20	
INTAKE WAINIHA PC 1086	A	23.95			.12		.50	.35		.05				.63				.69				.30		4.00	3.35	6.00		5.25				2.31	
KALIHUAI RES 1131	A	20.97	.08	.25			.14	1.76	.17	.42	.04			.97	.68							1.06	1.68	2.16	2.52			7.96	1.01	.01		.06	
KANALOHULU 1075	A	11.43			.09		.63	.65	.12	.04	.17	.06	.63	.95	.03			.02	.12	.10		.50	1.81	1.15	1.26	1.98	.15	.03	.02	.96		.13	
KANEA RESERVOIR 1092	A	17.95	.03	.06			.65	1.37	.10	.93	.17			.72	.22			.10	.30			1.59	.92	1.16	2.05			6.01	1.12	.15	.25	.05	
KAPAA STABLES 1104	A	13.01					.30	.53	.05	1.47	.70			.48				.12	.25			1.29	1.58	1.46	.93			3.22	.55		.06		
KEALIA 1112	A	12.04		.04			.50	.47	.25	1.37	.55			.75	.10			.04	.29			1.55	1.03	1.32	.60			1.99	.55	.53	.09	.02	
KEKAA 944	A	5.43					.47				.05		.06	.40				.07			.35	1.26	1.20	.25	.52	.09	.02		.68			.03	
KILAUHA 1134	A	14.24	.17	.02			.53	1.01	.64	.02	.02			.87	.12			.03				.69	1.03	2.36	1.03			4.77	.76	.01	.04	.12	
KILAUHA FIELD 17 1135	A	19.79	.11	.10			.23	1.54	.18	.61	.05			.73	.45							.75	1.59	1.85	2.50			7.26	1.27	.04	.07	.66	
KILAUHA POINT 1133	A	10.74		.01	.07	.05	.40	.56	.68	.02	.09		.24	.01				.01	.01	.45	.93	1.67	1.04	3.20	.25	.24	.08		.47	.02	.05	.19	
KOLO 1033	A	6.12					.62	.47			.22			.98				.20				.93	1.13	.38	.35			.37	.47				
KOLOA 936	A	14.01		.04			1.35	.46	.10	.58	.02			.74				.03	.05			.66	2.00	3.57	1.11			1.81	1.32	.05	.06	.06	
KOLOA MAUKA 994	A	15.90		.15	.03		1.35	.21	.35	.30	.02			.96				.04				.87	3.09	2.62	1.29			2.54	1.98			.10	
KOLOKO RES 1137	A	17.84	.11	.07			.48	1.55	.73	.07	.05			1.48	.16	.01		.03	.16			.72	1.26	1.55	1.94			5.91	1.20	.01	.07	.28	
KUKULUA 935	A	9.89		.01			1.08	.46	.05	.21				.64								.91	1.58	2.35	.81			.57	1.12	.01			
LIHUE VARIETY STA	A	11.93	.01	.15	.05	.46		.71	.07	.85	.01			.38	.02	.06		.02	.42	.06		.35	1.08	2.22	1.10	1.61	.08		.85	1.10	.02	.10	.15
LIHUE 1020	A	10.71	.01	.06	.01		1.08	.05	.70	.25	.09			.51	.07			.20				.42	1.36	1.71	1.22			2.32	.60			.04	
LIHUE W8 AIRPORT	R	8.91	.02	T	.07	.01	.78	T	1.54		T		.29	T	T			.50			.31	.85	1.45	.97	1.31	.18	.11	.03	.41	.04	T	.04	
MAKAHUNA POINT	A	13.02	.07		.06	.11	1.58	.29	.40	.14		.01	.20	.01	.01	.01	.01	.50	.62	.25	.09	.50	.91	.40	.79	.37	.02	.12	.04	.83	.01	.02	
MAKALEI 965	A	6.06		.02			.79	.05	.03		.01	.05	.58	.01				.20	.04			.45	1.75	.94	.29	.03		1.99	.55			.19	
MAKA 1026	A	7.50					.50	.16		.02				.81				.04	.14	.13	.03	1.02	2.43	.96	.40	.23	.01		.52			.10	
MOHIMI UPR CROSS 1083	A																																
MOLOAA 1145	A	13.23	.05				.61	.95	.85	.12	.75			1.25	.14	.02		.32				.88	1.18	1.62	1.55			2.38	.46		.09	.01	
NIU RIDGE 1035	A	8.28					.53			.05				.80				.31	.06	.11		1.09	2.45	1.22			.76	.70	.20				
N WAILUA DITCH 1051	A	25.72	.19	.42	.13		1.39	.68	.42	.97	.22			.92				.14	.28			2.79	1.18	2.90	2.02			6.46	4.10	.01	.08	.42	
PC WAINIHA 1115	A	27.80	.26	.05		.01	.41	3.60	T	.01	T	.04		1.30	.35	.02		.02				1.10	2.00	3.94	2.78	4.50	1.15	2.64	3.50	1.08	T	.04	
PRINCEVILLE RANCH 1117	A	16.31	.15	.12	.02		.38	1.18	.16	.02	.02			1.09	.27			.06			.33	1.93	2.37	1.85	3.25	.33	1.23	.62	.77			.16	
PUEHU RIDGE 1040	A	8.27					.52			.05				1.06				.07	.42	.30		1.30	2.41	.34	.50			.49	.72		.04	.05	
PUIHI 1013	A	11.46	.08	.07			1.20	.03	.70	.17	.01			.45				.15				.60	1.88	2.20	1.01			1.83	1.01	.02		.01	
RESERVOIR 6 1004	A	13.92	.09	.01			.44	.67	1.14	1.40	.02			.34	.15			.10				.63	3.15	2.11	1.95	.03		1.88	1.41				
WAILUA 930	A	7.40					.69	.46	.04	.16				.72	T							.52	1.06	1.51	1.01			1.17	1.06	T			
WAILUA MOUNTAIN 990	A	27.00																														27.00	
WAIAMI LOWER 1054	A	19.70	.02	.32	.08	.38	.35	.25	.45	.12	.82	.02	.21	.62				.35	2.04	.02	.24	1.89	2.28	2.08	1.18	.42	1.23	1.77	1.92	.47	.05	.12	
WAIAMI UPPER 1052	A	22.39	.13	.41	.03	.22	.82		.73	.23	.72	.03	.22	.37	.83			.41	1.31		.35	1.82	2.10	2.55	.66	1.55	1.80	2.00	2.55	.50		.05	
WAILUA 943	A	5.42					.39	.05					.47	.09				.15	.11			.57	2.00	.23	.46	.11			.79				
WAILUA KAI 1065	A	13.46		.04			.31	.68	.06	1.50	.09			1.08				.12	.19			1.08	2.10	2.49	.83			2.38	.48				
WAILUA 947	A	5.61					.35			.03	.02	T	.03	.10	.49			.32	.25			1.14	1.11	.33	.57	.20	.01		.64			T	
WEST LAWA 931	A	10.58		.02			1.54	.30	.06	.16	T			.58	T			.04				.79	1.81	2.19	1.09			.87	1.11	T	.01	.01	
ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	8.35					.02	1.44	.02		.10			.54	.28			.01				.45	.99	.21	3.81			.13	.20			.15	
BERETANIA PUMPING STA	A	8.21	T				.03	2.30	T		.18	.68		T				.05				.03	1.73	.34	2.50	.14		.05	.09	T	T	.09	
CAMP 84 C P C 807	A	8.43					.56	2.00	.09					.76	.08			.33				1.39	.57	2.35				.26		.01	.02		
COCONUT ISLAND 840-1	A	5.44		.01			1.20	.21			.12	.02		.12	.12				.42														

DAILY PRECIPITATION

Continued

HAWAII
MARCH 1967

Station		Total	Day of Month																															MARCH 1967	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF MOLOKAI																																			
KALAPAPA 563	A	14.40	T																																
KAUNAKAKAI 536	A	6.66	*	*	*	*	*																												
KEONELELE PENS 551	A	9.13	*	*	*	*	*																												
KUALAPUU 534	A	10.51																																	
MAPULEHU 542	A	12.78	.05	.03	.09																														
MAUNALO 511	A	8.63																																	
MOLOKAI AP 524	A	9.40	T	.01																															
PUUOHOKU RANCH 542.1	A	14.36	*	*	*	.35	*	.63																											
WAIKOLU 540	A	20.60																																	
ISLAND OF LANAI																																			
KANEPUU 690	A	9.67																																	
KAUNALAPU HARBOR 658	A	7.18																																	
LANAI CITY 672	A	10.09				.02	T	T																											
LANAIHALE 684	A	6.32	*	.06	*																														
MAHANA 694	A	7.38	*																																
MALAJEA 676	A	7.68	*																																
WAIKAEKUA 685	A	9.74	*																																
ISLAND OF MAUI																																			
AUNAHU-252	A	9.24	*	.29	.02	*	*	*	*																										
HALEKALA H E S 434	A	12.12	.03																																
HALEKALA RANCH 432	A	9.03	.03	*	*	*	*																												
HALEKALA RS 338	A	9.83																																	
HALEKALA SUMMIT 338.4	A	15.62	T																																
HALIIMALE 423	A	9.08	.11	.02																															
HANAUPOKO 485	A	9.84	.21	.02																															
HANA AIRPORT	A	9.89	.04	.18	.13																														
HANAHULI 281	A	17.19	.06	.02	.14																														
HOLUA CABIN 259.5	A	14.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
HONOKOHU 480	A	13.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
HONOKOHU 493	A	15.27	.02	.03	*																														
HONOHAMA GULCH 341	A	13.62	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KAHOMA INTAKE 374	A	16.86	*	*	2.27	*	*	*	*																										
KAHULUI WB AP	R	10.90	T	*																															
KAILIILI 436	A	13.70																																	
KAILUA 440	A	18.00	.34	.61	.03																														
KEAHUA INTAKE 375	A	10.05																																	
KEAHUA 410	A	9.51	T																																
KEANAE 346	A	22.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KEAWAKAPU BEACH 260.2	A	9.76	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KIMEI 311	A	11.03																																	
KIPAHULU 258	A	11.33	.35	.71	.10																														
KULA HEIGHTS 323.2	A	9.87																																	
KULA SANATORIUM 267	A	10.55																																	
LAHAINA 361	A	8.26																																	
LAUNIPUOKO INTAKE 376	A	18.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
LAUNIPUOKO VILLAGE 372	A	11.98																																	
LUPU UPPER 442	A	18.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MAHINAHINA 466	A	11.45																																	
NAKALELE -FLD 60-497	A	12.86	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
OLINGA 332	A	10.02	.02	T	T																														
OLOHALU 296	A	12.14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
OLOHALU GULCH 377	A	21.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PAKAE 350	A	25.91	.64	1.04	.15	1.03	.33	.19	.04	.06	.74	.10	.14	2.30	.04	.02	.94																		
PAIA 406	A	9.18	.02																																
PANALEI-HULLU 259.2	A	19.85	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PAUWELA 490	A	11.81	.32	.06	*																														
POHAKEA BRIDGE 307.2	A	11.29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
POLIPOLI SPRINGS 267.2	A	14.74	.26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUOHOKAMOA 2 343	A	22.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU KUKUI MAKAI 472	A	11.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUUNENE 396	A	10.35																																	
PRECKELSVILLE 400.2	A	9.62	.01																																
RIN GATES 261.3	A	9.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
RUMBLEE 333	A	14.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
RUMBLEHAME 301	A	12.35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
RUPALAKUA RANCH 250	A	11.35																																	
SAHIKULI 364	A	8.64	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
SAHEHU CAMP 484	A	12.66	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
SAHEHE VALLEY 482	A	9.22	*	*	*	*	*	*	*	*	*																								

DAILY PRECIPITATION

HAWAII
MARCH 1967

Continued

Station		Total	Day of Month																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KAMUELA AIRPORT		2.98	.08	.03	T		T	.10	.02	T		.10	.59	.02		.02	.01	T	.60	T	T	.10	.24	.35	T	.30	.01	.05	.01	T	.30	.04			
KAPAPALA RANCH 36		10.29		.07	.20		1.33	.25	.45		.03	.24	1.08		.04	.45	.40	.20	.21	1.02	.25	.15	.10	.24	.35	T	.30	.01	.05	.01	T	.30	.04		
KAPOHO LANDING 935	A	14.43				.89						1.85							.428					.475				.23	.08			.25			
KAUWAHA 88.1		15.44	.92	1.00	.24		.31	.53	.43		.04		.01	1.62	1.51	.02	.01	.26	.02	.03	.49	.08			.05	.47	.18	.33	.24	.30	3.86	1.10	.22	.02	1.15
KAWAINUI LOWER 193		36.26					8.78					1.82							2.38						12.98								10.70		
KEAAU 92		11.86	.10	.49	.12	.25	.35	.17	.08			2.11	2.76		.15	.22	.02	.38	.11	.07		.04	.50	.22	.37	.02	.04	.75	1.03	.10	.07	1.34	.04		
KEALAUEKUA 26.2		5.52					.89	.24	.07		T	T	T	.80	T		.16	.05		.33			.05	.21	.06	T	.30	T		1.96	.36		.04		
KEHENA 181.2	A	6.90																															.25		
KEHENA RESERVOIR 176.1	A	5.67	.33	.08	.02				.06			1.12			.42	.43	.09					.65	.12	.22	.35			1.48	.05			6.30			
KILOKAA A 7 F 6		6.30																																	
KIPA 89.2	A	18.08	1.03	1.06	.10	.31	.63	.44	.14		.01	1.74	1.38	.45	.05	.14	.07	.03	1.39	.07	.03	.02	.38	.27	.15	.40	.37	.42	1.37	.36	.01	1.26	.04		
KOHALA 179A		7.35	.09	.12	.01			.03	.01			.75			.11	.50	.49				1.06	.05	.57	.31				2.70	.31	.03		.21			
KOHALA MAULILI 176	A	8.36	.22	.11				.04			.19	.58			.42	1.22	.19				.55	.08	.38	.38				3.29	.33	.04		.34			
KOHALA MISSION 175.1		7.08	.08	.13	T		.02	T		.06		.42	.14	.03		1.00	.11		.97	T	.05	.63	.38	T	.30	.70	1.45	.44	.01	T		.16			
KOLAWE LOWER 196	A	18.31			5.00							1.28							1.92							5.53							.58		
KONA AIRPORT 68.3		1.57							.08			.01	.31	.02			.31			.75		.03	.11	.06		.11				.01	.10				
KUKIAU 222		13.71	.60	.51			.19	.02				.40	.02			2.92	.31	.10		.90		.21	.26	.50	.80	.01	.54	.74	4.10	.30		.28			
KUKIHALE HIC 199		8.75	.65	.18		.10	.03	.02				.18	.19	.29		2.25	.12	.01		.42		.21	.29	.47		.16	.62	2.10	.42			.04			
KUKIHALE MILL 206		10.13	.33	.29		.03	.02	.01				.45	.11	.16	.40	.09	.01	.53			.15	.31	.20		.15	.58	1.97	.28	.01			.05			
KULANI CAMP 79		7.95	.39	.16	.14	.18	.19	.60				.10	1.10	.12	.06	.07	.03	.08	.60	.10		.10	.39	.39	.60	.25	.25	.70	.20	.15	.10		.80		
KULANI MAUKA 76	A	4.64										.85	.32	.45	.06				.05			.40	.05	.55	.52	.02	.21	.48	.28	.03			.37		
KULANI SCHOOL SITE 78	A	5.77							.10			.47	2.06	.16		.07			.74				.05	.16	.10	.02				.66	.45	.26	.45		
LANIAHUA 68 C		7.30			.40			.47			T				.98	T					1.80	.16		.89		1.97				.48	.15				
MAUNA LOA SLOPE OBS		4.13			T							.77	.12		.07	.09	.06		.06	.05	.13	.21	.50	.33	.69	T	.03	.07	.22	.01	.58	.14			
MIDDLE MOULALO 68.1										.09	.83								1.03				.13	.08	.05				.06	.34					
MIDDLE PEN 147.1		1.81												.32									.81				.68								
MOAULA 18	A	6.10																																	
MOUNTAIN VIEW 91		17.86	.65	.56	.24	.66	.91	.47	.10	.03		.96	1.82		.10	.06	.34	.38	2.57	.11		.05	1.05	.14	.93	.06	.09	1.97	1.54	.42	.03	1.62			
NAALEHU 14		5.08			.18			.21	.09	T		.32	.67		.02	1.00	.07	T	.14			.09	.23	.82	.79	.38		.46	.04	.39	T	.08			
NAPOOPOO 28	A	2.19						.65							.83							.25							.46						
NAULU FOREST 38.6		9.51	T	.11	.02	.17	.14	.10	.09	.01	T	1.45	1.21	T	.30	.35	.30	.04	.64	2.31	T		.07		.56	.94	.35		.03	.11	.12	.09			
NIULII 179		7.60	.10	.20	.05			.10				.10			.15	1.25	.14				T	1.23	.08	.90	.58				.26	.27	.02	.17			
OKALA 223	A	12.02	.13	.40	.03	.03	.11	.05	T			.10	.79	.07	T	3.11	.36	.15	.04	.20		.05	.24	.80	.60	.04	.23	.42	2.54	.78	.01	.74			
OPIMAHUA 2 24.1		6.47	.02	.01	.03	.23			.12	T		1.41	T	T	.14	.06		.21	T		.07	.20	.19	.18	.01	1.32	.01	T	1.00	.53	.02	.68	.03		
ORCHIO LANE EST 91.5	A	15.38			1.91							2.58						2.86						2.00									6.03		
PAAUHAU 217		9.57	.36	.08		.04	.03	.02				.05	.13		.01	3.64	.07	.01	.03	.27		.06	.29	.71	.26	.20	.61	.46	2.02	.13		.09			
PAAUHO 221		11.88	1.04	.35			.09	.02				.01	.31			2.28	.32	.05	T	.83		.35	.26	.42	.55	.12	.44	.53	3.42	.35		.15			
PAHALA 21		7.88				.01	.26	.41	.13	.01		.01	.90		.25	.72	.30	.92			.02	.03	.13	.53	1.01	1.05	1.13	.01				.05			
PAHOA 65		15.89	.12	.50	.17	.10	.14	.08				1.37	2.95		.16	.14	.17	.10	.80	1.60			.07	1.45	1.22	.62	.04	.06	1.28	.72	.18	.05	1.80		
PAKAU 37	A	16.20													.87	1.29	.01	.03	.16	T	.30	.27	.03	.02	.66	.07	.11	.33	.19	.42	.76	.02	.08		
PAPAIKOU 144A		9.33	.19	.70	.10	.83	.21	.17	.01		.11	1.75	1.19	.11	.05	.18	.07	.13	.50	.01	.03	.38	.21	.03	.48	.35	3.92	1.22	.13	.01	1.92		1.46		
PAPAIKOU MAUKA 140A		16.52	.86	.88	.22	.54	.86	.36	.02			1.21	1.23	.07	.05	1.27	.02	.15	.70	.03			.12	.66	.08	.06	.32	.25	.20	.31	.04		2.80		
PEPEKEO MAKAI 144		11.53	.08	.78	.23	.37	.41	.09																									4.40		
PIIHONUA 89	A	24.40																																	
POHAKULOA 107	A	2.77																		.22			.58				1.45			.08					
POHAKU 95A		2.33										.17	.19							.57			.03	.09	.06	.01	.76	.02				.41	.02		
POU KAPU 192.1	A	3.55																															3.55		
POU KIME 120	A	7.61																															7.61		
POU LAU 102.1	A	2.54																															2.54		
POU LEHUA 73	A	2.80																															2.80		
POU MALI 113	A	4.70																															4.70		
PUUOKUMAU 167		6.78	.53	.11				.04			.06	.84			.22	.39	.05					1.10	.13	.24	.22				2.58	.09		.18			
PUU OO 82		8.21	.13	.16	.10	.07	.12	.10	.02	.01	.06	.04	1.42	.23	.05	.06	.03	.02	.02	.13	.01	.09	.38	.73	.85	.40	.23	.75	.65	.30	.14	.10	.87		
PUU WAHAA 94.1		7.29							.05	.10		.32	.17		.05	.30		T		.60		1.20	.60	.29	.24		.36	1.00	.73			.64	.74		
SAOOLE ROAD 1 84					5.80							2.57																							

DAILY TEMPERATURES

HAWAII
MARCH 1967

Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	63 51	64 51	67 50	65 52	67 45	69 55	60 49	60 49	68 53	66 54	69 46	68 55	63 57	70 39	65 39	61 41	66 42	67 46	70 52	64 55	60 54	64 56	60 54	62 52	60 54	65 56	66 59	67 55	69 49	69 47	69 47	65.3 50.5
KILAUEA POINT 1133	MAX MIN	73 67	78 66	77 67	78 66	78 65	69 62	73 62	81 70	77 67	82 71	82 73	82 60	83 60	80 67	78 65	78 68	83 68	84 69	75 67	76 66	73 67	74 66	73 66	75 65	72 65	74 69	73 67	80 67	78 70	79 68	79 68	77.3 66.6
LIHUE WB AIRPORT	MAX MIN	75 68	78 70	75 67	78 67	79 67	73 62	74 61	78 65	79 73	78 67	81 63	79 71	76 62	76 58	75 61	77 61	81 66	79 64	77 65	75 66	72 64	75 68	76 67	76 66	72 66	75 69	74 68	78 68	79 72	80 71	78 71	76.7 66.1
MAKAHUEA POINT	MAX MIN	78 62	77 64	80 63	78 68	80 65	82 71	78 64	76 64	82 70	81 69	83 66	85 69	83 66	80 64	79 65	81 65	80 68	84 67	83 68	78 70	78 66	76 65	76 68	76 65	79 65	74 66	77 70	75 66	82 67	82 71	81 71	79.5 66.8
MANA 1026	MAX MIN	82 59	81 61	80 63	81 62	83 65	85 66	75 59	82 62	83 65	79 62	81 62	84 69	80 67	80 60	81 60	79 62	82 65	80 67	78 65	77 65	76 65	73 63	79 61	79 62	78 61	79 61	77 66	79 66	80 66	82 65	81 63	80.0 63.8
NIU RIODE 1035	MAX MIN	79 57	78 57	79 58	79 58	80 60	80 59	72 59	76 59	77 60	78 60	78 59	79 60	80 60	80 56	77 55	79 61	79 62	79 63	80 63	74 60	74 60	75 60	75 60	74 61	74 62	75 60	75 61	75 61	80 62	78 63	81 62	77.4 60.0
WAIHAI LOWER 1054	MAX MIN	70 60	74 61	73 61	73 58	77 57	75 63	76 58	75 63	75 63	79 64	80 58	80 62	76 62	76 52	74 56	77 55	78 57	80 57	77 60	73 62	73 61	73 62	76 58	75 67	68 58	69 61	70 65	78 57	78 57	78 62	78 61	75.3 59.9
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	80 66	81 63	80 63	82 62	82 62	72 62	75 65	83 64	82 66	80 67	81 65	81 65	75 70	80 64	79 59	81 59	84 63	83 65	82 65	77 66	76 66	73 67	79 64	76 66	75 67	82 69	77 70	80 66	85 64	85 67	84 68	79.7 65.0
HONOLULU WBAP 703	MAX MIN	80 67	81 68	81 65	83 65	82 67	75 67	78 67	83 68	80 68	81 67	80 70	79 70	80 65	81 61	79 61	81 71	82 68	82 69	79 67	78 67	75 67	79 65	78 68	76 65	81 69	78 69	79 68	83 65	83 71	83 71	80.1 67.4	
HONOLULU SUBSTA 704	MAX MIN	74 67	77 69	76 68	79 68	80 69	75 68	76 68	80 68	80 69	79 69	78 65	78 70	77 69	78 64	78 65	79 65	78 68	83 65	79 70	77 64	76 65	73 67	77 65	75 67	74 68	78 69	76 68	78 68	81 71	81 71	77.8 67.9	
KAHUKU 912	MAX MIN	76 64	75 65	76 68			78 61	70 63	73 63	79 67	78 66			86 60	73 66	75 57	77 61					81 67	78 63	74 66					77 65	74 66	78 69	80 70	77.0 64.4
KANEOME MAUKA 781	MAX MIN	74 65	72 68	75 67	77 67	78 67	76 64	72 65	73 66	80 68	76 67	77 68	79 72	81 71	72 65	77 64	78 62	78 62	79 61	82 67	79 69	78 67	78 67	71 64	77 65	79 65	72 68	75 69	72 66	75 65	79 68	79 69	76.5 66.4
MAKAPUU POINT 724	MAX MIN	71 68	74 67	73 65	72 70	76 68	76 66	71 65	72 65	76 67	74 67	74 68	78 67	79 69	71 67	73 63	74 69	77 66	79 68	79 66	76 68	75 65	69 66	79 65	69 65	73 65	75 66	72 69	78 71	78 70	77 67	74.7 67.1	
OPAEULA 870	MAX MIN	69 60	70 62	75 61	81 63	75 60	78 61	68 61	69 61	76 64	76 64	80 66	78 64	78 66	73 61	76 55	78 55	76 57	78 62	80 62	79 64	73 63	68 64	73 62	73 63	73 69	75 61	73 66	72 64	76 61	78 62	80 65	75.1 62.2
PRI WAIHAWA 820.2	MAX MIN	75 61	75 60	78 58	78 60	81 59	80 60	70 63	72 62	81 63	79 64	77 61	77 62	79 68	74 60	77 56	75 56	80 61	78 62	78 61	75 61	70 62	77 63	72 64	73 69	79 65	76 61	79 65	82 61	82 66	76.9 62.0		
WAIALUA 847	MAX MIN	75 61	75 58	79 59	80 62	84 62	82 62	70 65	71 62	81 63	80 66	80 67	82 62	83 66	73 63	76 56	77 55	80 58	83 63	82 65	83 62	78 65	78 65	72 64	81 65	74 66	73 68	77 66	78 66	81 62	84 66	82 66	78.5 63.2
WAIKIKI 717.2	MAX MIN	79 69	78 68	82 63	83 65	84 67	84 63	76 66	81 66	86 69	84 67	81 66	83 66	84 72	83 62	83 59	83 60	82 67	85 67	83 68	80 61	79 68	73 63	76 67	75 67	68 67	78 68	82 69	78 67	80 63	84 70	85 66	81.5 66.0
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	72 65	72 66	76 65	77 66	76 67	80 64	78 64	74 66	80 66	78 68	74 69	80 70	80 66	74 66	75 62	76 60	80 60	77 67	81 69	80 66	74 66	73 66	71 66	78 67	75 67	74 68	76 69	79 68	78 66	82 68	80 68	76.8 66.2
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	73 59	72 61	76 58	73 57	72 60	74 59	74 61	75 60	73 61	75 63	76 61	75 59	76 62	71 61	74 60	75 58	77 64	77 61	74 64	75 65	72 62	71 64	70 63	73 65	71 65	69 64	71 63	74 65	75 64	77 63	76 62	73.7 61.7
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	58 42	62 40	62 40	59 40	60 37	58 38	57 45	58 43	66 49	66 47	56 42	58 42	61 47	59 46	60 44	57 44	58 44	60 43	60 42	58 43	56 46	50 46	53 47	55 46	50 45	58 46	60 47	65 44	65 48	66 44	61 47	59.1 44.0
HALEAKALA SUMMIT 338.4	MAX MIN	50 38	50 39	52 36	52 36	51 38	54 37	52 40	47 40	52 41	54 38	42 36	46 38	48 39	52 34	52 31	42 30	45 32	43 37	48 39	50 38	45 35	40 36	41 38	42 38	43 35	48 41	53 42	58 44	55 41	58 42	53 37	49.0 37.5
HANA AIRPORT	MAX MIN	73 64	75 68	76 65	76 67	79 64	77 66	79 66	80 66	80 67	80 67	78 65	80 65	83 65	82 59	75 66	79 66	78 63	80 67	81 66	80 66	75 67	76 66	75 67	76 66	72 67	75 71	76 69	77 69	79 70	82 69	78.0 66.3	
KAHULUI WB AP	MAX MIN	77 68	80 64	81 57	83 63	82 60	83 59	80 67	83 63	83 64	75 68	80 65	83 62	82 68	76 66	77 59	81 60	80 63	81 64	80 63	77 66	74 67	76 68	79 68	75 69	76 69	78 70	77 65	80 64	82 65	82 66	81 68	79.5 64.9
KAILUA 446	MAX MIN	77 60	70 60	73 61	74 61	75 63	74 58	77 58	77 67	77 67	77 65	77 69	79 66	79 59	61 60	72 60	75 60	71 60	76 63	77 60	78 59	76 60	78 60	78 60	78 63	78 61	79 61	78 64	79 64	74 64	77 65	77 65	76.4 61.8
KULA SANATORIUM 267	MAX MIN	68 50	68 50	67 49	67 50	68 54	68 53	73 54	69 55	70 54	60 55	68 56	69 56	71 57	71 53	69 53	70 54	72 55	72 57	70 55	69 56	72 57	69 56	65 57	69 58	67 57	71 58	74 59	68 57	70 57	68 70	70 55	69.2 55.0
LAHAINA 361	MAX MIN	82 58	82 61	82 59	82 59	83 59	83 59	84 63	82 65	85 63	85 66	76 66	83 64	83 64	80 66	81 60	83 62	81 63	84 63	84 63	78 64	75 65	78 66	81 63	77 65	78 65	85 69	82 65	82 63	85 63	83 66	81.7 63.2	
WAILUKU 392	MAX MIN	75 63	76 65	79 61	79 63	78 65	82 60	85 61	82 63	84 66	82 65	75 63	83 61	84 63	84 59	83 63	83 63	81 63	83 67	81 65	79 63	75 63	76 64	80 									

See Reference Notes Following Station Index

DAILY TEMPERATURES

HAWAII
MARCH

1967

Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF HAWAII																																	
HAINA 214	MAX	65	73	73	75	73	77	79	81	78	77	67	77	80	83	68	73	75	80	78	77	79	69	72	77	73	75	73	68	75	78	78	75.0
	MIN	60	59	57	59	62	57	60	59	60	62	61	58	60	63	60	59	58	58	61	61	61	61	59	60	61	64	65	64	63	60	63	60.5
HAWAII VOLCAN5 NP HQ 54	MAX	59	63	60	66	68	64	64	68	70	64	60	67	72	72	61	63	70	64	68	69	70	63	59	65	68	68	70	62	65	70	68	65.8
	MIN	48	49	46	51	51	53	45	50	49	53	54	50	53	56	53	51	55	51	52	50	54	53	53	56	53	53	58	53	54	53	55	52.1
HILO WB AIRPORT	MAX	75	77	81	78	79	79	84	85	83	73	85	86	83	76	79	81	88	82	82	84	77	77	83	81	80	81	74	81	84	82	82	80.7
	MIN	67	67	64	68	68	67	62	64	65	68	67	66	66	70	67	67	67	69	67	68	69	68	66	70	70	71	69	69	69	67	68	67.4
KAINALIU 738	MAX	77	75	77	77	77	77	78	79	75	77	73	78	78	79	81	77	78	81	79	77	78	73	77	80	79	77	80	77	71	72	78	77.2
	MIN	59	59	56	57	58	57	60	62	60	62	59	60	60	60	59	59	61	62	59	59	61	60	60	65	62	64	63	63	62	63	62	60.4
KAMUELA 192.2	MAX	61	65	67	75	70	71	74	77	76	70	70	78	77	78	72	74	76	78	74	72	78	68	67	75	77	72	70	68	69	75	74	72.5
	MIN	53	54	47	50	55	47	49	50	53	59	58	49	49	52	57	54	49	53	58	56	55	58	53	56	56	60	60	56	54	57	58	54.0
KAMUELA AIRPORT	MAX	68	69	67	72	71	71	71	73	75	70	69	72	75	75	74	74	76	74	74	72	73	68	67	74	72	72	73	67	68	73	72	71.6
	MIN	50	53	49	54	58	57	56	50	49	55	57	52	50	57	56	54	54	55	54	56	55	54	57	56	57	58	63	55	56	56	62	55.0
KEAAU 92	MAX	72	73	76	79	79	79	77	82	82	80	83	83	83	82	72	78	77	84	84	84	83	77	75	84	84	84	72	78	82	81	79.8	
	MIN	63	63	61	60	60	60	62	63	61	63	63	63	63	63	62	63	65	64	64	64	64	64	64	65	65	65	65	65	65	64	64	63.2
KEALAKEKUA 26.2	MAX	77	75	79	79	77	78	78	79	77	78	75	78	79	79	79	78	79	81	79	79	80	70	72	81	81	78	81	77	71	78	78	77.7
	MIN	60	61	59	59	60	59	62	61	61	64	62	61	62	62	61	61	63	63	63	65	63	62	66	66	63	65	63	65	64	64	64	62.4
KOHALA MISSION 175.1	MAX	70	74	75	75	76	77	76	80	79	77	69	79	82	82	74	76	78	82	79	78	79	70	75	82	76	77	74	71	74	79	79	76.6
	MIN	63	63	60	62	61	62	62	65	66	65	64	63	63	65	64	61	62	64	65	65	65	64	64	65	65	67	67	65	66	66	67	64.1
KONA AIRPORT 68.3	MAX	80	80	80	80	79	81	81	80	80	80	79	80	82	82	82	81	81	82	82	80	81	77	75	80	80	79	81	82	81	80	80	80.3
	MIN	63	64	63	64	64	64	63	63	64	65	65	64	66	64	64	64	65	64	65	65	63	63	65	65	64	65	66	64	64	65	65	64.3
KULANI CAMP 79	MAX	61	63	63	59	59	68	67	64	68	68	67	69	68	65	67	57	63	63				63	65	65	61	65	65	65	61	64	64	64.2
	MIN	43	44	41	49	46	48	46	47	44	51	48	44	45	48	46	45	50	48				45	52	46	51	50	50	49	55	51	49	46	47.4
MAUNA LOA SLOPE 085	MAX	49	48	48	49	52	54	49	54	53	43	43	49	51	49	44	50	49	45	47	45	40	42	48	52	50	53	52	49	51	50	48	48.6
	MIN	34	31	29	33	33	37	31	31	33	35	32	34	36	36	33	31	34	33	32	36	34	34	32	32	37	40	40	36	38	36	34	34.1
MOUNTAIN VIEW 91	MAX	67	70	69	74	72	72	69	77	79	75	72	79	79	79	69	71	73	80	79	79	78	70	71	80	76	74	74	68	70	75	76	74.1
	MIN	56	59	56	54	59	60	55	55	56	56	60	58	59	59	59	57	57	63	58	59	58	61	61	62	62	64	64	61	61	59	62	59.0
NAALEHU 14	MAX	77	75	76	76	77	77	76	78	79	77	77	80	80	80	76	74	78	78	81	82	79	71	74	74	75	80	80	73	76	78	80	77.2
	MIN	62	65	64	64	64	64	64	64	65	65	65	64	64	65	65	65	67	67	65	65	66	65	64	64	65	65	65	67	66	66	67	64.9
OOKALA 223	MAX	70	75	73	77	76	79	77	80	80	78	80	80	80	80	70	75	79	82	80	79	78	71	73	81	77	76	75	70	78	78	79	77.0
	MIN	64	63	62	64	66	64	63	63	66	66	66	65	65	65	65	63	64	65	64	66	65	65	65	65	67	66	66	65	67	67	67	65.0
OPIHIHALE 2 24.1	MAX	75	76	76	77	79	81	77	76	74	74	76	81	78	79	76	79	81	80	77	78	77	69	83	86	74	78	75	72	79	76	75	77.2
	MIN	57	54	54	57	56	56	58	58	59	60	58	58	59	59	59	56	57	59	59	61	60	60	62	66	61	62	64	64	63	62	63	59.6
PAHALA 21	MAX	78	75	74	77	76	75	73	76	78	78	69	79	80	80	76	71	77	80	80	79	78	72	71	78	78	81	80	74	74	78	78	76.5
	MIN	57	56	57	57	62	63	59	59	58	59	60	61	62	62	62	61	61	65	60	61	62	62	62	64	66	65	65	65	64	60	61	61.2
UPOLU POINT USCG 159.2	MAX	78	77	78	78	79	80	81	80	80	79	73	80	81	82	80	78	81	80	85	79	78	74	78	83	78	76	78	75	77	79	80	78.9
	MIN	65	67	64	66	66	67	66	62	65	68	68	66	65	69	66	68	66	67	65	67	68	66	68	74	66	66	69	67	68	67	67	66.7

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
LIMUE WB AIRPORT	EVAP	.27	.23	.27	.07	.21	.26	.13	.15	.29	.15	.14	.18	.00	.39	.21	.15	.26	.12	.19	.05	.04	.10	.16	.19	.24	.22	.12	.09	.19	.30	.23	5.60
	WIND	192	124	83	38	81	44	62	63	62	60	30	74	85	93	66	50	59	68	50	55	36	114	151	109	226	199	169	107	37	82	130	2799
	MAX	74	77	84	79	82	87	81	80	84	82	83	89	82	85	84	79	88	83	88	75	75	68	75	81	82	82	84	72	88	90	90	81.7
	MIN	63	63	64	66	66	66	66	67	68	68	65	65	66	58	62	61	60	64	64	65	65	66	66	67	64	64	67	67	65	65	68	64.9
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.28	.20	.23	.13	.21	.24	.31	.06	.15	.15	.09	.18	.23	.10	.10	.15	.20	.17	.20	.15	.07	.12	.00	.18	.15	.11	.21	.10	.12	.19	.19	4.97
	WIND	87	64	34	26	33	39	54	20	24	30	13	25	31	29	26	11	46	19	23	16	20	23	11	24	39	35	59	31	23	20	27	962
	MAX	82	80	85	79	89	87	73	76	89	87	81	95	76	79	91	88	87	93	93	84	78	84	75	91	79	76	87	78	82	89	81	83.7
	MIN	62	62	63	62	63	63	64	64	66	67	68	68	69	62	62	62	62	62	69	68	67	67	67	65	66	65	65	66	66	66	66	69	65.2
ISLAND OF HAWAII																																	
HILO WB AIRPORT	EVAP	.11	.05	.14	.11	.10	.15	.32	.28	.09	.04	.19	.28	.21	.14	.12	.11	-	.21	.20	.19	.01	.10	.16	.10	.16	.06	.01	.12	.21	.13	.09	4.338
	WIND	70	53	58	64	63	70	95	81	79	39	91	124	62	123	55	58	96	50	63	72	57	70	59	84	57	67	51	64	74	55	58	2162
	MAX	77	78	83	81	78	77	84	85	84	72	84	86	90	78	84	82	83	90	90	83	75	76	84	81	84	82	75	81	84	83	84	81.9
	MIN	63	64	62	65	65	65	60	62	63	65	65	62	66	67	65	65	70	67	64	66	67	65	65	66	67	69	68	66	66	65	67	65.2

HAWAII
MARCH 1967

STATION INDEX

HAWAII
MARCH 1967

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL	
ISLAND OF HAWAII												
NAPOOPOO 28	A 6697 04	S KONA	4	19 28	155 55	400		W				KONA EXPERIMENT STA
NAULU FOREST 38.6	6731 02	PUNA	2	19 19	155 08	1400		VAR				HAWAII VOLCANOES NAT PR
NIULII 179	A 6806 01	N KOHALA	1	20 14	155 45	75						KOHALA SUGAR CO
OKALA 229	7131 02	N HILO	2	20 01	155 17	430	7A	7A				LAUPAHOEHO SUGAR CO
OPIMIALE 2 24.1	7166 04	S KONA	4	19 16	155 53	1270	7A	7A				MISS C LEONARD
ORCHID LAND EST 91.5	A 7185 02	PUNA	2	19 34	155 00	445		VAR				BOARD OF WATER SUPPLY
PAIUMAU 217	7206 01	HAMAKUA	1	20 05	155 26	415	7A					PAUMAU SUGAR CO
PAJULO 221	7312 01	HAMAKUA	1	20 03	155 22	800	7A					HAMAKUA HILL CO
PAHALA 21	7421 03	KAU	3	19 12	155 29	870	8A	6A				HAWAIIAN AGR CO
PANOA 65	7457 02	PUNA	2	19 30	154 57	670		6A				PUNA SUGAR COMPANY
PAKAO 37	A 7643 03	KAU	3	19 22	155 28	5000		MO				HAWAIIAN RANCH CO. INC.
PAPAIAKU 144A	7711 02	S HILO	2	19 47	155 06	200	7A					MAUNA KEA SUGAR CO.
PAPAIAKU MAUKA 144A	7721 02	S HILO	2	19 47	155 09	1400	7A					MAUNA KEA SUGAR CO.
PEPEKEO MAUKA 144	8000 02	S HILO	2	19 45	155 05	100	7A					PEPEKEO SUGAR CO
PIHONUA 89	A 8051 02	S HILO	2	19 44	155 10	1730						STATE DIV OF FORESTRY
POHAKULOA 107	A 8063 02	HAMAKUA	5	19 59	155 50	5	6A					STATE DIVISION OF PARKS
PUKU 95A	8186 03	KOHALA	1	20 02	155 39	2870						WILLIAM PAYNE
PUU KAPU 192.1	A 8383 01	S KOHALA	1	20 02	155 39	2870						STATE DIV OF FORESTRY
PUU KIE 120	A 8393 01	HAMAKUA	5	19 54	155 24	7750		MO				KUKIAU RANCH CO
PUU LAU 102.1	A 8452 05	HAMAKUA	5	19 50	155 38	7440		MO				STATE DIV OF FISH-GAME
ISLAND OF HAWAII												
PUU LEHUA 73	A 8460 04	N KONA	4	19 34	155 49	4850		MO				GREENWELL RANCH
PUU MALL 113	A 8519 01	HAMAKUA	1	19 55	155 26	6760		MO				KUKIAU RANCH CO
PUUDUMAU 167	8548 01	N KOHALA	1	20 12	155 50	1800	7A					KOHALA DITCH CO LTD
PUU OO 82	8550 02	S HILO	2	19 44	155 23	6340	6A					W. H. SHIPMAN, LTD
PUU WAMAA 94.1	8555 05	N KONA	5	19 47	155 51	2520	7A					GILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590 02	S HILO	2	19 42	155 12	2340	WM					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675 03	KAU	3	18 57	155 41	400	W1					HUTCHINSON SUGAR CO
SOUTH TRACKING STA	8679 03	KAU	3	18 57	155 41	395	7A					FEDERAL ELECTRIC CORP
UMIEKA 116	8780 01	HAMAKUA	1	19 59	155 23	3420	8A					KUKIAU RANCH CO
UPOLU POINT USCG 159.2	8830 01	N KOHALA	1	20 15	155 53	1	BA					U S COAST GUARD
WAIKAEA SCO 88.2	9025 02	S HILO	2	19 40	155 08	1050	7A					SHINICHI KANESHIRO
WAIKANONOULA 176.6	9350 01	N KOHALA	1	20 08	155 47	3630						KAMUA RANCH

↑ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS. Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME. Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. East and West in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES. Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- .. Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Climatological Data" table; "Daily Precipitation" table; and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- W2 Gage read weekly and last day of month.
- W Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

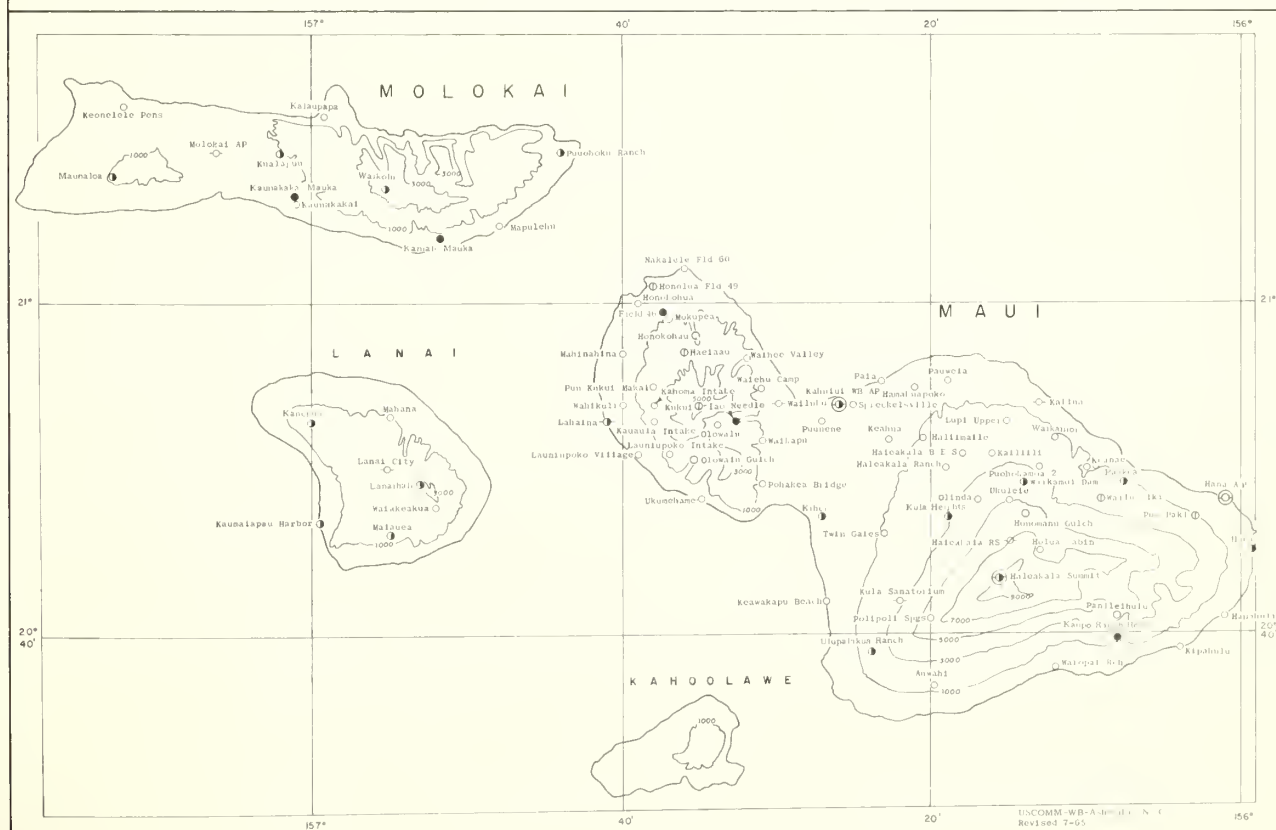
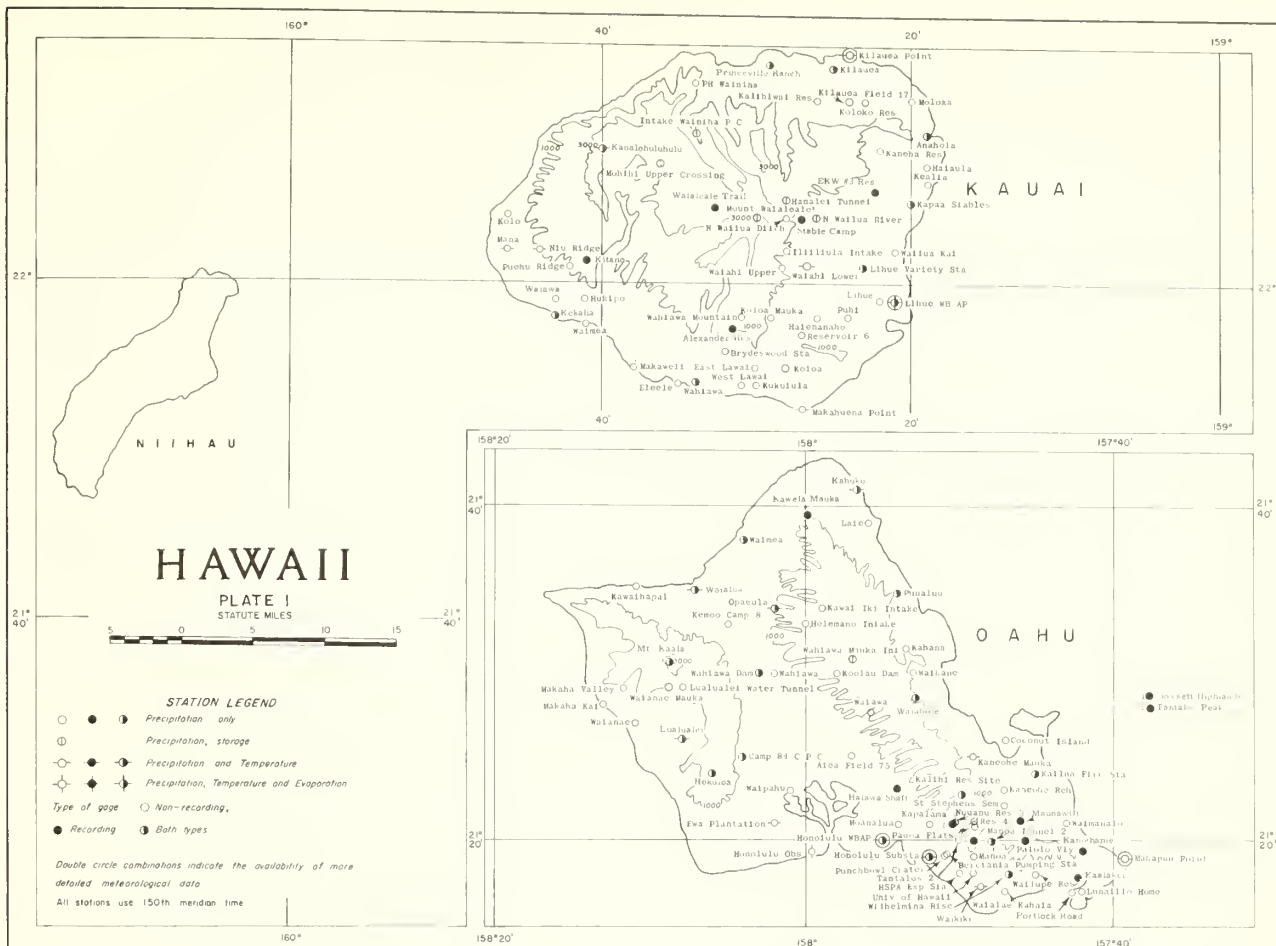
Stations appearing in the Index, but for which data are not listed in the tables, were either missing or received too late to be included in this issue.

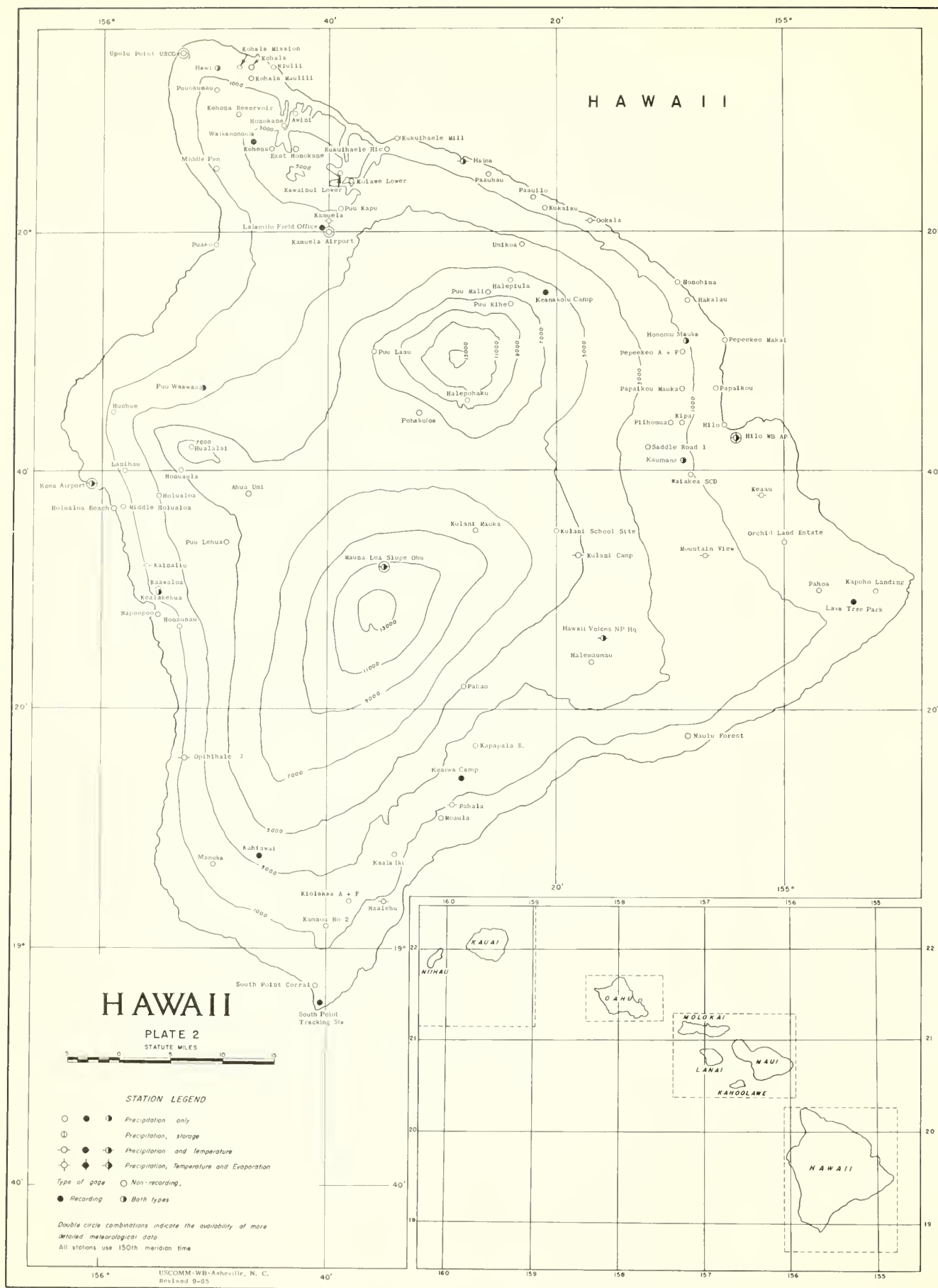
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, MONTHLY CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOM-ESSA-ANNEVILLE-6/30/67-625







CLIMATOLOGICAL DATA

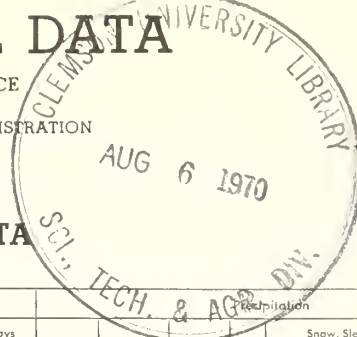
U. S. DEPARTMENT OF COMMERCE
ALEXANDER B. TROWBRIDGE, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

APRIL 1967

Volume 63 No. 4

CLIMATOLOGICAL DATA



Station		Temperature										No. of Days				Snow, Sleet				No. of Days					
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days				
										Max.	Min.	90° or Above	80° or Above					70° or Above	60° or Above	Total	Max. Depth on Ground	Date	10 or More	50 or More	100 or More
ISLAND OF KAUAI																									
ANAHOLA 1111	A	66.4	49.1	57.8		73	25*	41	22	0	0	0		4.03	-.08	2.42	11	.0	0		10	5	3	1	
KANALOHULU 1075														7.95				.0	0						
KAPAA STABLES 1104	A													3.49		1.00	12	.0	0						
KILAUEA FIELD 17 1135	A													8.04	.23			.0	0						
KILAUEA POINT 1133		78.2	68.1	73.2		84	26	63	10	0	0	0		3.92		1.02	14	.0	0		9	3	1		
KOLOA 936	A													4.55	-.18			.0	0						
LIHUE WB AIRPORT	R	78.4	65.4	71.9	-.6	83	20	58	17	0	0	0		1.60	-1.74	.53	11	.0	0		5	1	0	0	
MANA 1026		81.4	63.9	72.7	.0	87	26	60	17	0	0	0		.34	-.91	.10	9	.0	0		1	0	0		
N WAILUA OITCH 1051														*		5.88	26	.0	0						
PH WAINIHA 1115														11.59	-.68	3.55	15	.0	0		17	6	5		
PUEHU R10GE 1040														1.39		.80	15	.0	0		3	1	0	0	
WAHIAWA 930	A													1.14	-.78	.48	11	.0	0			0	0		
WAIHAI LOWER 1054		77.3	58.1	67.7		83	22	51	10	0	0	0		8.29		2.07	15	.0	0		16	6	1	1	
WAIMEA 947														1.00	-.13	.33	15	.0	0		3	0	0		
ISLAND				68.7										4.41				.0							
ISLAND OF OAHU																									
HONOLULU OBSERV 702.2														1.25		.70	13	.0	0		4	1	0	0	
HONOLULU WBAP 703	R	82.5	66.9	74.7	.5	88	24*	62	10	0	0	0		1.29	-.02	.61	11	.0	0		4	1	0		
KAHUKU 912														*				.0	0						
KANEOME MAUKA 781		78.5	67.0	72.8	.3	84	24	62	18	0	0	0		5.17	-.36	1.10	13	.0	0		13	2	2		
KOOLAU OAM 833														10.46	3.51	2.54	14	.0	0		14	6	4		
LUALUALEI 804														1.10		.45	1	.0	0		4	0	0		
MAKAPUU POINT 724		78.1	68.9	73.5		84	22	66	18*	0	0	0		1.17	-.61	.38	12	.0	0		4	0	0		
NUUANU RES 4 783														5.84	4.17	1.24	14	.0	0		11	5	1		
OPAEULA 870		77.3	61.3	69.3	1.3	83	24*	57	17	0	0	0		5.68	1.52	1.66	11	.0	0			3	2		
PALOLO VALLEY 718														9.86	2.65	1.96	1	.0	0		15	7	3		
PRI WAHIAWA 820.2		79.6	61.3	70.5		85	27*	56	18	0	0	0		7.31				.0	0						
PUNALUU 884														*		1.70	15	.0	0			3	2		
WAHIAWA OAM 863														4.14		1.00	24	.0	0			3	1		
WAIHOLE 837	A													12.13	-1.17			.0	0						
WAILUA 847	A	80.3	62.1	71.2	-.3	87	25	58	18*	0	0	0		1.98	.26	.65	11	.0	0		4	2	0		
WAIKIKI 717.2		83.8	65.1	74.5		89	23	59	18*	0	0	0		2.40		1.12	11	.0	0		6	1	1		
WAIIPAHU 750	A													3.10	1.22			.0	0						
ISLAND				72.4										4.86				.0							
ISLAND OF MOLOKAI																									
KUALAPUU 534	A													3.13	-.07	1.36	11	.0	0				1		
MAPULEHU 542														2.87	-.18	.63	12	.0	0		10	2	0		
MAUNALOIA 511														2.76	.45	.79	13	.0	0			2	0		
MOLOKAI AP 524		79.2	66.9	73.1		84	27*	63	17*	0	0	0		2.93		.90	11	.0	0		7	2	0		
ISLAND				73.1										2.92				.0							
ISLAND OF LANAI																									
LANAI CITY 672		77.9	62.8	70.4	3.4	87	28*	56	10	0	0	0		4.41	1.49	1.65	25	.0	0		8	2	2		
ISLAND				70.4										4.41				.0							
ISLAND OF MAUI																									
HALEAKALA B E S 434	A													6.22	-1.74	1.26	11	.0	0		10	6	2		
HALEAKALA RS 338		58.6	42.1	50.4		67	6	35	10	0	0	0		7.60		2.22	11	.0	0		11	3	2		
HANA AIRPORT		80.0	66.6	73.3		84	28*	59	10	0	0	0		10.31		4.61	23	.0	0		9	4	3		
HONOKOHUA 493	A													4.20	-1.02	1.30	11	.0	0						
KAHULUI WB AP	R	80.2	65.0	72.6	-.8	87	26*	60	21	0	0	0		1.19	-.25	.78	10	.0	0		2	1	0		
KAILUA 446		78.0	61.7	69.9	.8	82	24	56	11	0	0	0		9.01	-2.52	2.00	1	.0	0		16	6	2		
KEANAE 346	A													22.90	-2.20			.0	0						
KIPAHULU 258														4.54	-2.50	1.14	1	.0	0		10	2	1		
KULA SANATORIUM 267		68.9	55.0	62.0	.0	78	24	50	10	0	0	0		5.74	3.05	2.45	15	.0	0		9	2	2		
LAHAINA 361		84.2	63.9	74.1		88	23	59	10	0	0	0		.89	-.16	.34	2	.0	0		4	0	0		
PAIA 406														1.30	-1.83	.32	11*	.0	0		4	0	0		
WAILUKU 392		81.8	63.9	72.9	.3	87	24	59	10	0	0	0		2.79	.09	1.10	13	.0	0		5	3	1		
ISLAND				67.9										6.39				.0							

CLIMATOLOGICAL DATA

HAWAII
APRIL 1967

CONTINUED

Station	Temperature										Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
									Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
									31° or Above	31° or Below	31° or Below	0° or Below										
ISLAND OF HAWAII																						
HAIRNA 214	77.7	61.0	69.4	- .6	83	29+	55	10	0	0	0	6.98	- .69	2.35	11	.0	0		12	5	1	
HAWAII VOLCNS NP HQ 54	67.2	51.8	59.5	.4	73	22	45	11	0	0	0	13.27	4.87	2.74	6	.0	0		22	9	4	
HILO WB AIRPORT	81.6	67.0	74.3	2.7	86	27+	62	12+	0	0	0	21.26	9.34	4.49	5	.0	0		16	11	8	
HUEHUE 92A												7.03	4.02			.0	0					
KAINALIU 73B	78.1	60.5	69.3		82	24+	54	10+	0	0	0	5.30	- .36	2.22	1	.0	0		6	4	1	
KAMUELA AIRPORT	72.4	55.2	63.8		78	25	47	13	0	0	0					.0	0					
KEAAU 92	81.0	62.6	71.8	.7	85	17+	58	10+	0	0	0	24.43	12.01	4.54	6	.0	0		20	14	8	
KEALAKEKUA 26.2	78.8	62.3	70.6		83	24	56	9	0	0	0	3.99		1.04	1	.0	0		9	2	1	
KEHENA RESERVOIR I76.1												6.47				.0	0					
KONA AIRPORT 68.3	81.3	64.7	73.0		86	25	60	9	0	0	0	1.66		.41	1	.0	0		5	0	0	
KUKUIHAELE HIC 199												8.48	- .75	1.59	17	.0	0		13	5	3	
KULANI CAMP 79	62.9	45.2	54.1		69	10	37	11+	0	0	0	20.50		2.98	6	.0	0		28	17	7	
PAHALA 21	78.3	61.5	69.9	.1	82	13	56	10	0	0	0	3.77	.61	.62	22	.0	0		11	2	0	
POHAKULOA I07												.89		.33	30	.0	0			0	0	
PUAKO 95A												4.79		2.20	17	.0	0		4	4	2	
PUU WAAWAA 94.1												6.75	4.45	1.21	12	.0	0		12	6	2	
UMIKOA I18												*				.0	0					
WAIKAE SCD 88.2												28.44		5.35	6	.0	0		20	14	9	
ISLAND			67.6									10.25				.0						

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 89° ON THE 23D AT WAIKIKI 717.2, OAHU

LOWEST TEMPERATURE: 25° ON THE 10TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 31.97 INCHES AT MOUNTAIN VIEW 91, HAWAII

LEAST TOTAL PRECIPITATION: 0.29 INCH AT KEKAHA 944, KAUAI

GREATEST ONE-DAY PRECIPITATION: 6.65 INCHES ON THE 22D AT MOUNTAIN VIEW 91, HAWAII

SPECIAL WEATHER SUMMARY

Although April contained no greatly damaging storms, its weather was noteworthy for the number of funnel clouds observed, for a fall of large hail, for an unusually high tide, and for several locally heavy rains.

The first funnel cloud of the month, associated with a rain shower, was sighted on the 3d 10 miles west-southwest of Hilo and well inland on the island of Hawaii. On the afternoon of the 14th, a funnel cloud was seen over the sea 4 to 5 miles north of Kahului, Maui, and two others 4 and 6 miles, respectively, north-east of Hilo, Hawaii. Again on the 22d, a small tornado, or a waterspout previously reported over Maalaea Bay, Maui, and which may have moved onshore, damaged several houses in the Waiakoa area.

On the 21st of the month, near noon, a thunderstorm in the Mountain View, Hawaii, area, accompanied by high winds, heavy rain, disc-shaped hail $5/8$ inch in diameter (and by an unconfirmed funnel cloud) damaged the roof of a garage, blew large branches from trees, and partially uprooted nine utility poles. A gage in the area recorded 6.40 inches of rain between 11:45 a.m. and 3:05 p.m.

Several other weather events of interest occurred. One was the abnormally high water which on the afternoon of April 10 littered the Hilo Bayfront Highway with debris and caused the Mamaloa Highway at Kapapala, 2 miles north of Pahala, to be closed for 3 hours, due to flooding. On the 17th, Puako in northwestern Hawaii, one of the State's driest localities, with an average annual rainfall of less than 10 inches, received $2-1/4$ inches of rain between 9:00 a.m. on the 16th and 4:00 a.m. on the 17th, more than 6 times its April mean.

On the 22d, heavy rain occurred in Oahu's major crop growing areas, while the Honolulu Airport station registered 88° , a record high for April, and 2° above the previous maximum for the month.

For the month as a whole, most of the State had near normal rainfall. Here and there on Oahu and Hawaii Island a few gages received 3 to 5 times their monthly average (Puako, previously mentioned, 13 times its April mean), while in southwestern Kauai and on Maui several gages had less than half their monthly means.

Saul Price
Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
APRIL 1967

Station		Total	Day of Month																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																			
ANAHOLA 1111	A	4.03	*	*	*	.09	.24	.05					.20	.54	.45	.43	.27	*	1.64																
BYOTESWOOD STA 985	A	5.16	*	*	.38	.01	.85	.64		.01	*	*	.04	.66	.12	.07	.01	*	.62			.01	.01				.34	.23	1.15	.01					
EAST LAHAI 934	A	3.14	*	*	.91	.09	.01	.03		.02	*		.30	.54	.06	.06	T	*	1.00																
ELEEE 927	A	4.81	*	*	.02	T	.05						T	.34	.02	.02																			
HAULA 1110	A	4.02	*	*	.35				.12	*			.32	.60	.70	.32	.35	*	.95					.02		.05		.29	*	*	*	*			
HALEHANAHO 1006	A	3.24	*	*	.71	.09	.03	.06	.05	*			.19	.46	.43	.08	.05	*	1.01									.03	*	*	*	*			
HUKIPO 945	A	.71																																	
ILILILUA INTAKE 1050	A	19.17	.50	.70	1.26	.70	.37	.98	.20	.22	.74	.38	1.00	1.32	.48	.72	2.85	.30	.74							.78	3.60	.34	.05		.04				
INTAKE KAHINHA PC 1086	A	19.75			1.18	.70	.37	.98	.20	.22	.74	.38	1.00	1.32	.48	.72	2.85	.30	.74					.05	.13	.30	.78	3.60	.34	.05		.04			
KALIHAI RES 1131	A	9.84	*	*	1.00	1.03	.93	.78	.01	*			.26	.33	.64	.69	1.25	*	2.69		.01								.18		.04	*	*		
KANALOHULU 1075	A	7.95							.20	.34	.78	1.63	2.42	1.32	.10	.17	.88		.04		.16	.11													
KANEHA RESERVOIR 1092	A	10.34			.65	.29	.30	.07					.92	.85	1.20	.80	1.50	*	3.27		.05														
KAPAA STABLES 1104	A	3.49	*	*	.45								.55	.35	1.00	.10	.22	*	7.05																
KEALIA 1112	A	2.91	*	*	.39								.35	.39	.62	.15	.15	*	.60			.03													
KEKAHA 944	A	.29											.02			.09					.06														
KILAUEA 1134	A	5.60	*	*	.81	.07	.05	.05	.02	*			.21	.22	.37	.69	1.25	*	1.79	.02								.02		.03	*	*	*	*	
KILAUEA FIELD 17 1135	A	8.04	*	*	.65	.66	.21	.31	.08	*			.39	.44	.58	.28	.67	*	3.45	.04								.23		.05	*	*	*	*	
KILAUEA POINT 1133	A	3.92			.04	.02	.08	.04		.15	.16		.31	.33	.82	.61	1.02	.04	.12			.01					.01	.01		.14					
KOLO 1033	A	.87											.44		.05	.14					.12														
KOLOA 936	A	4.55	*	*	.87	.13	.02		.05	*			.46	.47	.33	.66	*	1.45			.02							.02	.02		.05	*	*	*	*
KOLOA MAUKA 994	A	4.98	*	*	1.16	.19	.11	.09	.07	*			.27	.61	.28	.25	.06	*	1.31									.41	.24		.05	*	*	*	*
KOLOKO RES 1137	A	4.35	*	*	.50	.03	.21		.07	*			.31	.49	.32	.42	.38	*	2.23								.02	.21		.43					
KUKUULA 935	A	2.82	*	*	.24	.01							.32	.42	.12	.42					.02							.03	.02		.05	*	*	*	*
LIHUE VARIETY STA	A	2.96	.11	*	.19	.08			.09	.12	.17		.16	.55	.65	.12	.12	.21		.07								.08	.19		.05	*	*	*	*
LIHUE 1020	A	2.38	*	*	.20	.03	.01		.12	*			.46	.35	.42	.12	.07	*	.31																
LIHUE WB AIRPORT	R	1.60	.02		.05	.01	T		.03	.05	.27		.21	.53	.13	.03	.21	.02	.02		T		.01												
MAKAHUEA POINT	A	1.30	.08	.03		.01	.01	T	.03	.01			.12	.42	.15		.03		.24		.10														
MAKAHUELI 965	A	1.62											.20		1.08		.27				.07														
MANA 1026	A	.34										.10	.03		.01		.06	.06		.02															
MOHIMI UPR CROSS 1083	A		*	*		2.28	*														.05	*													
MOLOAA 1145	A	3.58	*	*	.25	.02	.03		.04	*			.10	.33	.29	.30	.25	*	1.50																
NIU RIDGE 1035	A	.52																																	
N. WAILUA DITCH 1051	A		*	*	2.40	.41	.88	1.51	.13	*			2.19	1.42	2.16	1.34	1.51	*	3.48																
PH WAINIHA 1115	A	11.59	.74	.48	.44	.03	.29	1.12	.18	.12	.11		.26	1.22	1.25	1.01	.24	3.55	.08	.26															
PRINCEVILLE RANCH 1117	A	10.09	.22	.16	.82	.04	1.34	.91	.04	*			.28	.33	.66	.52	2.00	2.37	.02	.02			.13												
PUEHU RIDGE 1040	A	1.39											.11		.39	.02	.80																		
PUIHI 1013	A	3.43	*	*	.33	.04	.03	.01	.08	*			.29	.45	.40	.21	.16	*	.80																
RESERVOIR 6 1004	A	3.09	*	*	.61	.03	.03	.05	.04	*			.12	.45	.23	.05	.08	*	1.02																
WAIHANA 930	A	1.14	*	*	.14	T							.07	.68	.05	.04		.27			T	T													
WAIHANA MOUNTAIN 990	A	11.75	*	*																															
WAIHAI LOWER 1054	A	8.29	.46	.30	.59	.57	.10	.13	.17	.09	.25		.20	.72	.83	.32	.33	2.07	.03	.66	.02														
WAIHAI UPPER 1052	A	15.23	.83	.37	.85	.69	.35	.58	.15	.15	.44		.26	.95	.63	.92	.31	3.07	.03	.70															
WAILANA 943	A	6.23	.45	.02	.05	.30	.07	.05	.02	*	.16		.07	.42	.02	.72	.78	1.75	.22																
WAILUA KAI 1065	A	2.96	*	*	.36								.61	.31	.71	.40	.03	*	.54																
WAIMEA 947	A	1.00	.07			.04							.03	.04	.30	.33					.19														
WEST LAHAI 931	A	2.76	*	*	.32	.02		.02	T	*			.38	.72	.03	.15	T	*	.62																
ISLAND OF OAHU																																			
AIEA FIELD 625 761	A	4.32	*	*	.95	.07			.04	*			.05	1.63	.18	.16	.24	*	.74																
BERETANIA PUMPING STA	A	1.92	.18	.06	.01	T	.08		T	*			.04	1.13	.07	.12	.15	*	.97																
CAMP 84 C P C 807	A	4.23	*	*	.77								.03	.42	.08	.15	.05	*	.97																
COCONUT ISLAND 840+1	A	6.13	.45	.02	.05	.30	.07	.05	.02	*	.16		.07	.42	.02	.72	.78	1.75	.22																
EWA PLANTATION 741	A	1.66	.14	.04									.24	.15	.50	.45																			
HELEMANO INTAKE 881	A	7.86	*	*	1.14	*		1.40	*	*			.80	*	*	1.30	*	2.83	*																
HOKULUA 725+2	A	1.28																																	
HONOLULU OBSERV 702+2	A	1.25	.15	.02		T	T		T	T			.20	.81	.13	T	.03	T	.01	.14															
HONOLULU WBAP 703	R	1.29	.09	.01									.03	.24	.86	.05																			

DAILY PRECIPITATION

Continued

HAWAII
APRIL 1967

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF MOLOKAI																																		
KALAPAPA 563	3.87			T	T	.10		.42	.81	.05	.15	.10	.85	T	.09	.90	.31																	
KAUNAKAKAI 536	A .36												.28	.08																		.09		
KEONELE PENS 551	A 2.99												.88	.40			1.55																	
KUALAPU 534	A 3.13			.10				.06					1.36	.02	.35	.22		.71							T									
MAPULEHU 542	A 2.87	.27	.04	.32	.12		.41			.54	.03			.03									.12	.13										
MAUNALO 511	A 2.76							.07			.06	.65	.04	.79	.36			.42																
MOLOKAI AP 524	A 2.93	.41	T		T			.04	.18	.08	T	.90	.28	.14	.71	.15								.02		.13	.12							
PUOHOKU RANCH 542-1	A 2.98	.35	.22	.17				.27	.32	.11		.12				.50																		
WAIKOLU 540	A 10.05										3.92						4.51									.14					.92			
ISLAND OF LANAI																																		
KANEPUU 690	A 1.27						.03							.64						.06											.47		.07	
KAUHALAPU HARBOR 658	A .39							.07				.11																						
LANAI CITY 672	A 4.41	.07	T					T	.39	T	.05	.10	.12	.01	1.37	.07	.03	.15				.02		T							.18	.65	.11	T
LANAIHALE 684	A 6.99						.44							1.84						2.97											.87		.22	
MAHANA 694	A 2.82																															.87		
MAHANA 694	A 2.82																																2.82	
HALAUEA 676	A 1.59					T								.62						.02											.85		.10	
WAIKAEKUA 685	A 4.36			.35							.60		.30				.96									1.46	.35						.34	
ISLAND OF MAUI																																		
AUWAHI-252	A 3.69				.35						1.85					1.30		.19																
HALEKALA B E S 434	A 6.22	1.12	.37	.01		.06	.67		.29	.54		1.26	.15		.10	.64		.03								.05					.90	.03		
HALEKALA RANCH 432	A 5.71	.45	.61				.43		.11	.14		1.00		.10		.86										.91	.56	.03			.51			
HALEKALA RS 338	A 7.60	2.20	.39	.01	.01	.06	.41		.03		.04	2.22	.25	.21	.31	.78	T	.03	T				T	.16	.21	.25	.03			T				
HALEKALA SUMMIT 338.4	A 5.01		1.58	.40	.20	.32					.62		.45	.12	.27		.30									.15	.50	.10						
HALLIMALE 423	A .35			.55			.75	.04			.57	.66	.18		.03	.04		.39								.03	.05							
HAMAKUPOKO 485	A 2.53	.53	.13	.05	.06	.06	.25	.11	.15	.24	.02	.32	T	.03	.49	.02	T	.01	T												.06	T		
HANA 354	A 6.68	1.66	.17		.18	.12		.03	.51	.01	1.09	.09	.27	.03	.02		1.01	.03		.02	.01	.01	1.28	.05							.07			
HANA AIRPORT	A 10.31	2.16	.05	.04	.47	.11	.04	.48	.60	T	.09	1.00	.01	T	.05	.09	.04	.16	.04												.16	.05		
HANAMULI 281	A 3.79	1.73	.25	.04	.10	.12	.09	.31	.09		.06	.30	.02	T																	.20	T		
HOLUA CABIN 259.5	A 5.97						.29			.10				4.00												.61							.17	
HONOKOHU 480	A 11.50																															11.50		
HONOKOHUA 493	A 4.20			.65	.02	.03	.39	.03			.65	1.30	.11	.02	.43		.53			.02												.02		
HONOHANU GULCH 341	A 7.40																															7.40		
KAHOMA INTAKE 374	A 10.19							4.73							3.06								.21											
KAHULUI WB AP	R 1.19	.04	T			T	T	.08	T	T	.78	.01		.26	T	T															T	.02		
KAILILILI 436	A 10.75																																	
KAILUA 446	A 9.01	2.00	.80	.33	.30	.39	.34	.36	.50	.54	.05	1.24	.19		.05		.08	.44														10.75		
KAUHAULA INTAKE 375	A 4.17							1.20			.12	.19					1.82																.55	
KEAHUA 410	A 1.34	.11	.06					.21	T	.02	.20			.13	.03	T																.06		
KEANAE 346	A 22.90																																22.90	
KEAWAKAPU BEACH 260.2	A .30										.01	.03	.01	.19																				
KIHEI 311	A .88							T			.01	.19		.61	.05	T																		
KIPAHULU 258	A 4.54	1.14	.40		.14	.40	.33	.05	.33		.02	.93	.08	.04	1.39																	.10		
KULA HEIGHTS 323.2	A 4.02	.82	.13					.08																										
KULA SANATORIUM 267	A 5.74	.17	.03					.06	.02		.05	.07	1.30	.30	.03	2.45	T	.24					.05	.32	.24	.17	.18	T		.06				
LAHAINA 361	A .89	.07	.34								.18	.11		.17			.02																5.20	
LAUNIPOKO INTAKE 376	A 5.20																																	
LAUNIPOKO VILLAGE 372	A 1.10	.15	.30								.05			.50			.10																13.10	
LUPU UPPER 442	A 13.10																																	
MAHINAHINA 466	A 3.37	.43		.42			.27	.10	.26	.04	1.22	1.10	.33	.07	.05		.30		1.94													.03		
MAKALELE #10 60-497	A 3.90		.68																															
OLINDA 332	A 35.66				24.00				2.74								7.05	.51													1.36			
OLOHALU 296	A .58										.03			.50			.05																	
OLOHALU GULCH 377	A 2.40																																2.40	
PAAKEA 350	A 24.84	3.03	1.59	.48	.57	1.19	2.67	.76	1.64	.29		1.56	.10	.04	.21		.07	.40	.18							5.46	.29	.31			3.72	.28		
PAIA 406	A 1.30	.27	.06	T			.05	.01	.02	.32	T	.32	T	.05	.15	.01		T														.04	T	
PANILEIHALU 259.2	A 12.06																																	
PAUMELA 490	A 4.24			1.30	.46	.19	.30	.20			.59	.42	.40	.10	.06		.22																	
POHAKA BRIDGE 307.2	A .77	.03						.15			.02	.13	.05	.31	.01																		.07	
POLIPOLI SPRINGS 267.2	A 5.67					.79					1.19	.65		.17						.63									2.24					
PUOHOKA 2 343	A 26.40																																26.40	
PUU KUKUI MAKA 472	A 14.20																																9.20	
PUUNE 396	A 1.13	.11						.08	.05	.01																								

HAWAII
APR 11 1967

1967

SUPPLEMENTAL DATA

= 42 =

DAILY TEMPERATURES

HAWAII
APRIL 1967

Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	70	73	67	68	64	68	67	66	59	57	58	60	63	68	66	67	63	63	62	62	68	67	70	72	73	70	70	70	70	72	66.4	
	MIN	55	54	55	50	54	52	50	48	50	51	52	52	51	50	52	50	45	46	48	42	44	41	45	46	46	47	45	49	48	54	49.1	
KILAUEA POINT 1133	MAX	77	77	77	77	74	77	78	75	75	76	75	75	79	75	77	76	79	79	80	80	81	82	82	82	84	83	78	78	79	78.2		
	MIN	69	69	68	70	69	68	68	66	65	63	66	66	68	66	66	64	69	66	67	68	68	68	72	73	73	69	70	70	68	70	68.1	
LIHUE WB AIRPORT	MAX	77	78	78	79	77	78	78	73	75	77	76	78	73	78	76	78	76	80	80	83	80	79	81	82	82	81	78	78	80	78.4		
	MIN	70	70	70	70	72	70	65	63	60	65	65	66	64	66	67	64	66	67	59	60	60	60	63	73	71	72	65	64	65	68	65.4	
MAKAHUEA POINT	MAX	80	80	79	80	82	79	79	80	77	79	77	78	79	81	79	81	79	81	80	81	84	83	83	83	85	86	83	87	82	82	81.0	
	MIN	70	70	70	71	71	70	72	65	65	66	65	65	67	64	66	66	60	69	58	70	62	62	74	63	63	71	74	68	63	67	66.9	
MANA 1026	MAX	82	84	81	80	82	81	81	81	75	77	81	79	81	80	80	80	77	68	80	81	85	84	84	85	83	87	85	82	81	84	80.4	
	MIN	63	64	66	64	67	64	63	65	63	63	65	62	62	64	64	63	60	62	63	64	63	63	63	66	67	67	66	64	63	63	63.9	
NIU RIOGE 1035	MAX	83	83	81	82	84	80	83	82	81	81	77	80	78	78	78	80	81	80	78	78	80	80	80	81	81	80	80	80	81	81	80.4	
	MIN	61	60	62	61	64	61	60	60	59	59	62	59	60	61	60	61	59	59	59	59	59	59	58	58	58	60	60	60	64	65	60.2	
WAIAMI LOWER 1054	MAX	76	75	75	77	74	75	76	77	74	73	74	75	78	74	78	78	75	77	78	78	81	83	81	80	82	80	80	78	78	78	77.3	
	MIN	62	63	64	63	62	63	60	57	57	51	53	56	56	60	60	55	52	53	54	55	55	54	56	60	62	64	58	59	55	63	58.1	
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	82	80	78	82	82	83	81	77	79	79	80	81	82	82	84	82	81	79	82	82	84	81	85	87	85	88	86	86	85	86	82.4	
	MIN	69	67	67	64	69	67	66	63	61	60	64	61	64	62	63	64	60	59	60	61	60	62	65	66	68	65	65	67	67	65	64.0	
HONOLULU WBAP 703	MAX	81	80	79	83	81	83	83	79	80	80	82	82	80	81	83	81	81	81	82	82	83	88	84	88	85	86	85	83	84	85	82.5	
	MIN	71	69	70	66	70	71	68	65	64	62	66	64	66	65	67	65	64	63	64	65	64	67	68	69	71	69	69	67	68	69	66.9	
HONOLULU SUBSTA 704	MAX	78	77	77	79	76	78	77	73	74	77	77	78	77	78	80	79	77	78	79	79	81	84	84	83	83	82	80	82	78	80	78.8	
	MIN	71	71	71	70	71	72	69	66	65	63	64	65	67	67	68	67	66	67	68	68	68	69	71	72	72	71	72	72	72	72	68.9	
KAHUKU 912	MAX				79	76	78	78			78	77	76	78	78		78	79		82	81	80				82	82	82	83				
	MIN				66	67	68	69	68		62	65	61	64	62		59	57		63	60	60				62	68	71	64	67			
KANEONE MAUKA 781	MAX	79	76	74	75	77	75	78	77	74	71	76	72	80	80	81	78	78	78	79	82	83	83	83	84	83	80	82	83	77	77	78.5	
	MIN	69	69	69	67	70	69	68	64	63	64	67	65	69	68	70	65	64	62	65	65	64	65	68	69	70	69	69	69	69	66	67.0	
MAKAPUU POINT 724	MAX	78	75	76	75	76	74	76	76	72	74	74	76	80	77	78	80	79	76	79	79	83	84	82	82	81	81	80	81	79	79	78.1	
	MIN	69	68	70	70	68	69	70	66	67	67	67	66	67	70	67	69	69	66	70	70	68	73	72	68	69	74	69	70	68	71	68.9	
OPAEULA 870	MAX	78	74	71	72	75	72	76	78	73	75	71	75	76	76	79	78	76	77	78	79	78	83	82	83	82	80	82	78	79	82	77.3	
	MIN	66	64	65	63	63	65	63	59	58	59	60	60	59	56	60	60	60	57	59	60	58	61	58	62	65	63	63	63	65	62	61.3	
PRI WAIHAWA 820.2	MAX	78	76	81	77	81	79	80	78	76	79	75	78	77	75	76	79	79	79	79	81	81	82	82	84	85	82	85	80	81	83	79.6	
	MIN	65	66	65	61	62	66	64	62	62	58	62	58	61	59	60	62	57	56	57	57	57	60	62	59	64	63	62	65	63	64	61.3	
WAIALUA 847	MAX	82	78	77	81	81	80	81	77	73	76	78	77	78	80	78	80	78	78	83	84	83	81	83	85	87	85	86	83	81	79	80.3	
	MIN	66	66	64	61	64	61	61	62	63	63	58	60	61	60	61	63	63	58	59	60	59	60	60	61	65	63	64	68	69	61	62.1	
WAIKIKI 717.2	MAX	81	82	82	80	83	83	82	83	80	82	82	81	83	82	84	84	83	81	84	83	84	84	83	84	86	88	88	87	86	86	83.8	
	MIN	71	69	70	65	70	71	67	65	65	60	65	60	62	62	64	62	59	59	61	61	61	63	66	68	69	66	67	66	69	69	65.1	
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	78	78	77	76	81	77	79	76	74	76	78	77	79	77	80	80	79	77	79	80	82	80	82	84	83	84	84	80	79	79	79.2	
	MIN	69	69	69	69	70	69	69	64	64	65	65	63	65	65	66	71	63	66	67	67	64	66	68	66	68	67	70	67	66	71	66.9	
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	72	73	76	72	75	73	74	74	76	72	74	77	76	77	78	78	76	79	79	80	81	82	83	84	85	85	87	87	78	74	77.9	
	MIN	64	63	64	64	64	65	63	64	63	56	62	61	62	60	64	63	59	58	62	61	60	65	68	64	65	65	63	63	65	64	62.8	
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	62	61	59	57	60	67	61	57	59	55	49	54	55	56	59	57	57	53	54	58	59	59	59	59	60	60	64	62	62	63	58.6	
	MIN	47	44	41	43	45	45	41	36	36	35	40	41	45	41	42	45	44	44	40	42	43	38	41	43	44	45	43	42	42	45	42.1	
HALEAKALA SUMMIT 338.4	MAX	48	49	49	57	47	59	62	50	48	50	51	61	62	47	47	47	48	40	45	50	51	58	56	50	54	55	54	55	52		51.8	
	MIN	37	36	34	34	35	34	37	33	29	27	31	33	40	40	36	34	34	35	38	41	37	41	39	43	45	46	44	46		37.1		
HANA AIRPORT	MAX	80	78	78	79	80	79	80	77	75																							

See Reference Notes Following Station Index

DAILY TEMPERATURES

HAWAII
APRIL 1967

Continued

Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF HAWAII																																	
HAIRNA 214	MAX MIN	76 62	78 62	73 63	77 58	78 63	68 62	76 61	78 59	67 57	68 55	78 57	76 59	79 60	79 60	80 61	76 63	76 60	82 63	82 61	82 61	81 61	83 62	81 63	83 64	83 64	80 61	80 63	82 64	83 64	70 63		77.7 61.0
HAWAII VOLCN5 NP HQ 54	MAX MIN	68 54	70 54	62 54	59 51	62 53	60 53	59 54	66 50	63 48	64 46	66 45	68 46	68 49	68 49	68 52	69 48	70 56	68 54	68 55	72 48	72 51	73 52	71 52	67 54	69 55	68 52	70 51	72 56	67 55		67.2 51.8	
HILO WB AIRPORT	MAX MIN	82 68	81 69	78 68	81 67	73 68	79 68	82 68	77 68	78 64	80 68	80 62	82 62	83 65	83 66	83 66	81 67	82 66	84 66	86 66	84 67	84 69	82 68	84 68	84 68	86 68	85 68	77 68	80 70		81.6 67.0		
KAINALIU 738	MAX MIN	78 63	78 62	78 61	74 59	78 62	78 62	76 60	77 60	77 54	75 54	78 57	77 59	77 59	78 60	78 60	78 61	79 61	80 61	82 61	82 61	80 62	80 62	81 61	81 61	78 61	76 62	75 62	77 65	80 63		78.1 60.5	
KAMUELA 192.2	MAX MIN	69 63	71 58	66 57	67 50	72 53	70 58	69 57	75 55	70 50	70 50	68 51	74 48	73 49	77 49	74 49	75 53	75 46	76 48	77 46	78 49	80 49	77 53	80 53	78 52	76 52	75 55	74 58	78 58	72 56		73.8 52.5	
KAMUELA AIRPORT	MAX MIN	69 58	72 59	70 61	69 59	73 62	68 62	71 60	72 54	70 48	69 55	68 54	72 57	70 59	74 60	74 54	72 53	73 51	73 55	74 53	77 54	75 54	76 60	78 54	72 65	75 57	70 56	74 73	77 60		72.4 55.2		
KEAAU 92	MAX MIN	83 63	83 63	83 63	76 63	80 63	70 64	75 64	79 58	79 58	78 58	79 60	79 60	81 63	81 63	85 63	85 63	80 62	82 62	83 62	84 64	83 64	83 64	83 64	78 65	80 65	82 63	84 64	83 64		81.0 62.6		
KEALAKEUA 26.2	MAX MIN	80 65	79 64	75 63	74 61	77 63	78 63	77 62	79 62	77 56	75 58	77 60	79 60	78 61	78 61	78 61	80 61	80 63	80 62	81 63	81 63	82 64	82 64	83 63	81 64	79 63	79 64	77 63	81 65		78.8 62.3		
KOHALA MISSION 175.1	MAX MIN	77 65	76 66	75 65	76 63	78 66	74 65	77 65	76 60	70 59	74 59	75 62	77 62	81 62	80 63	79 64	83 65	80 62	78 62	83 63	82 63	82 63	82 65	82 67	81 65	80 65	79 64	80 66	79 65	80 67		78.4 64.0	
KONA AIRPORT 68.3	MAX MIN	80 66	80 65	79 65	82 63	81 66	80 65	80 65	81 65	80 65	78 61	81 61	81 63	80 63	80 64	81 64	81 64	82 64	82 65	82 65	83 65	83 64	83 64	83 64	86 65	83 66	81 66	78 65	84 68	82 67		81.3 64.7	
KULANI CAMP 79	MAX MIN	65 50	65 52	65 50	63 51	56 45	57 50	58 49	60 47	60 41	69 37	59 37	63 38	63 40	62 45	65 44	65 44	62 44	63 45	67 41	68 41	68 45	68 45	61 42	61 45	67 46	61 50	65 41	67 43	62 48		62.9 45.2	
MAUNA LOA SLOPE 085	MAX MIN	48 32	47 33	44 31	46 31	50 34	44 35	47 34	46 34	46 32	43 28	44 26	52 29	49 33	47 33	54 35	54 37	53 34	55 35	53 37	56 34	54 33	49 30	45 31	48 36	51 35	51 36	52 36	54 36		49.4 32.8		
MOUNTAIN VIEW 91	MAX MIN	76 60	75 62	74 61	70 59	73 60	65 59	68 61	73 57	69 53	73 54	74 54	74 53	78 54	79 55	80 57	79 56	76 58	78 57	80 57	81 57	80 58	77 60	77 60	76 60	74 59	77 58	79 58	80 60		75.5 58.1		
NAALEHU 14	MAX MIN	80 67	79 64	79 64	73 65	79 65	72 65	76 66	78 66	79 65	78 58	79 59	79 59	81 62	81 62	81 62	83 62	84 63	84 63	82 63	84 63	82 67	82 67	82 67	82 66	81 66	78 65	80 65	79 66	80 65		79.7 64.2	
OOKALA 223	MAX MIN	80 71	81 65	77 65	76 65	80 65	70 65	77 63	80 62	71 62	72 60	78 62	76 63	81 63	80 65	80 65	84 66	78 65	78 65	81 66	83 66	83 67	84 67	82 66	82 66	80 66	80 67	85 67	81 67		79.1 65.3		
OPIHIHALE 2 24.1	MAX MIN	78 62	75 61	74 57	77 58	76 63	78 61	75 60	75 55	76 53	75 53	78 56	78 56	78 57	80 59	78 58	78 59	81 59	81 59	81 60	81 60	84 61	81 61	78 61	78 61	77 63	77 64	75 64	79 62		78.1 59.3		
PAHALA 21	MAX MIN	79 65	80 65	78 64	73 61	77 63	71 63	73 63	79 61	76 60	76 56	78 58	78 57	82 58	80 60	80 61	77 61	80 62	78 61	79 61	81 61	81 63	81 63	79 63	79 63	77 64	78 61	79 61	81 63		78.3 61.5		
UPOLU POINT USCG 159.2	MAX MIN	78 67	78 68	78 66	77 66	79 68	75 67	79 65	77 65	77 65	79 64	78 64	79 67	81 67	82 66	82 68	81 69	80 68	80 68	84 69	84 68	84 68	84 67	83 67	86 69	82 67	82 67	83 67	82 67		80.7 67.0		

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WB AIRPORT		EVAP WIND MAX MIN	.23 174 85 68	.21 163 82 67	.30 179 84 66	.22 131 82 67	.30 135 87 68	.20 163 83 66	.34 151 86 65	.34 125 87 60	.25 106 80 61	.36 198 82 63	.21 269 80 64	.22 * 85 65	.25 190 86 66	.26 51 86 66	.20 87 84 67	.29 91 86 62	.22 61 83 60	.29 67 85 60	.30 97 82 60	.25 72 85 61	.24 59 82 62	.24 59 82 62	.30 70 92 64	.25 58 92 65	.30 75 93 70	.35 60 95 70	.27 60 93 66	.28 45 93 66	.21 76 93 64	.39 132 82 65	
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2		EVAP WIND MAX MIN	.25 45 92 68	.14 34 85 66	.17 30 85 65	.18 40 85 65	.19 43 87 66	.25 58 86 65	.27 43 86 65	.19 42 88 62	.23 39 87 62	.26 33 86 61	.17 43 82 63	.12 21 88 64	.20 18 89 65	.20 19 91 66	.18 17 89 66	.28 28 92 65	.27 30 94 64	.27 23 94 63	.26 21 95 65	.24 21 95 65	.24 24 95 66	.27 24 97 68	.19 24 93 69	.15 19 93 69	.15 18 95 68	.20 30 99 68	.25 33 99 68	.20 31 95 65	.25 34 88 64		
* * * ISLAND OF HAWAII																																	
HILO WB AIRPORT		EVAP WIND MAX MIN	.10 75 79 65	.12 66 82 66	.15 51 78 66	.12 48 80 65	.08 44 70 65	.12 45 78 64	.29 150 82 65	.22 98 81 64	.15 69 83 60	.23 59 88 61	.19 61 88 61	.25 63 90 63	.17 67 88 66	.22 66 90 64	.20 58 89 64	.09 38 80 65	.09 53 82 65	.35 82 85 65	.26 62 91 64	.14 64 86 66	.22 64 88 64	.12 64 88 67	.09 57 83 66	.16 74 87 65	.26 83 91 65	.26 74 88 65	.22 91 90 67	.08 78 90 67	.10 53 82 68		

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STATION INDEX

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STATION													STATION												
INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER		
							TEMP	PRECIP	EVAP	SPECIAL	REMARKS								TEMP	PRECIP	EVAP	SPECIAL	REMARKS		
ISLAND OF KAUAI																									
ALEXANDER RESV. 983	01402	02	KOLOA	2	21 57	159 32	1610					MC BRIDE SUGAR CO.	KANERPU 690	A 3130	01	LAHAINA	1	20 53	157 00	1640				DOLE COMPANY	
ANALANALU 1111	01405	01	KAWAII	2	22 09	159 19	1116	7A				LINIE PLANTATION CO.	KANALUPA 689	A 3461	01	LAHAINA	1	20 47	157 00	1640				DOLE COMPANY	
ANALANALU 985	01406	01	KOLOA	2	21 56	159 32	1720	7A				MC BRIDE SUGAR CO LTD	LANAIA CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A			DOLE COMPANY	
AST LAHAI 934	0456	02	KOLOA	2	21 55	159 30	1441	7A				MC BRIDE SUGAR CO.	LANAIAHUA 689	A 5010	01	LAHAINA	1	20 50	156 55	1620	7A			DOLE COMPANY	
NEW 3 RESERVOIR 1094	0465	02	KAWAII	2	22 06	159 22	1505					LINIE PLANTATION	LANAIAHUA 674	A 5704	01	LAHAINA	1	20 53	156 55	1430	7A			DOLE COMPANY	
LAHAI 927	0466	02	KOLOA	2	21 54	159 30	1441	6A				MC BRIDE SUGAR CO LTD	LANAIAHUA 685	A 6012	01	LAHAINA	1	20 45	156 55	1135	7A			DOLE COMPANY	
HALEMANA 1006	04108	02	LIIHUE	2	21 58	159 26	490	8A				LINIE PLTN CO LTD												DOLE COMPANY	
HALEMANA 1053	04109	01	KAWAII	2	22 05	159 28	1216	6A				LINIE PLTN CO LTD												DOLE COMPANY	
HALEMANA 945	04110	01	WAIHEA	2	21 59	159 41	800	8A				KEKHA SUGAR CO LTD												DOLE COMPANY	
LIIHUE INTAKE 1050	2222	02	LIIHUE	2	22 02	159 29	1070	7A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA PC 1088A	2227	01	HANALEI	2	22 09	159 34	690	W1				MC BRIDE SUGAR CO LTD												DOLE COMPANY	
WATERS MINIMA RES 1131	2228	01	HANALEI	2	22 11	159 26	400	7A				KILAUHA SUG PLTN CO												DOLE COMPANY	
WATERS MINIMA 1075A	2229	01	HANALEI	2	22 08	159 40	3600	8A				KANALOHULU R. S.												DOLE COMPANY	
WATERS MINIMA 1075B	2230	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLANTATION												DOLE COMPANY	
WATERS MINIMA 1075C	2231	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075D	2232	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075E	2233	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075F	2234	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075G	2235	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075H	2236	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075I	2237	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075J	2238	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075K	2239	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075L	2240	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075M	2241	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075N	2242	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075O	2243	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075P	2244	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075Q	2245	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075R	2246	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075S	2247	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075T	2248	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075U	2249	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075V	2250	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075W	2251	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075X	2252	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075Y	2253	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075Z	2254	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AA	2255	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AB	2256	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AC	2257	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AD	2258	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AE	2259	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AF	2260	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AG	2261	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AH	2262	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AI	2263	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AJ	2264	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AK	2265	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AL	2266	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AM	2267	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AN	2268	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AO	2269	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AP	2270	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AQ	2271	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AR	2272	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AS	2273	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AT	2274	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AU	2275	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AV	2276	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AW	2277	01	HANALEI	2	22 08	159 40	3600	8A				LINIE PLTN CO LTD												DOLE COMPANY	
WATERS MINIMA 1075AX	2278	01	HANALEI																						

STATION INDEX

HAWAII
APRIL 1967

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII												
NAPOOPOO 28	A 8697	04	S KONA	4	19 28	155 55	395	7A				KONA EXPERIMENT STA
NAULU FOREST 38.6	A 8731	02	PUNA	2	19 19	155 08	1400	VAR				HAWAII VOLCANOES NAT PN
NIULII 179	A 8806	01	N KOHALA	1	20 14	155 45	75	6A				KUHAKA SUGAR CO
OKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A				LAUPAHOE SUGAR CO
OPINIHOLE 2 2A.1	7186	04	S KONA	4	19 16	155 53	1270	7A				MISS C LEONARD
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445	VAR				BOARD OF WATER SUPPLY
PAA JHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415	7A				PAAJHAU SUGAR CO
PAA JILO 221	7312	01	HAMAKUA	1	20 03	155 22	800	7A				HAMAKUA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670	6A				PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000	NO				HAWAIIAN RANCH CO. INC.
PAPAIAKOU 144A	7711	02	S HILO	2	19 47	155 06	200	7A				MAUNA KEA SUGAR CO.
PAPAIAKOU MAUKA 140.1	A 7721	02	S HILO	2	19 47	155 08	1270	7A				MAUNA KEA SUGAR CO.
PEPEKEO MAKAU 144	8000	02	S HILO	2	19 51	155 25	100	7A				PEPEKEO SUGAR CO
PILIHONUA 85	A 8051	02	S HILO	2	19 44	155 10	1730	NO				STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511	VAR				STATE DIVISION OF PARKS
PUAKO 95A	8186	05	KOHALA	5	19 59	155 50	5	6A				WILLIAM PAYNE
PUM KAPU 192.1	A 8383	01	S KOHALA	1	20 02	155 39	2870	NO				STATE DIV OF FORESTRY
PUU KIME 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750	NO				KUKAIAU RANCH CO
PUU LAU 102.1	A 9452	05	HAMAKUA	5	19 50	155 36	7440	NO				STATE DIV OF FISH-GAME
ISLAND OF HAWAII												
PUU LEHIA 73	A 8460	04	N KONA	4	19 34	155 49	4850	NO				GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960	NO				KUKAIAU RANCH CO
PUUOKURAU 167	8548	01	N KOHALA	1	20 12	155 50	1800	7A				KUHAKA DITCH CO LTD
PUU OO 82	8550	02	S HILO	2	19 44	155 23	6340	6A				W. H. SHIPMAN, LTD
PUU WAAMAA 94.1	8555	05	N KONA	5	19 47	155 51	2520	7A				DILLINGHAM RANCH INC
SADDLE ROAD 1 8A	A 8590	02	S HILO	2	19 42	155 12	2340	NO				BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	400	WI				HUTCHINSON SUGAR CO
S POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	395	NO				FEDERAL ELECTRIC CORP
UNIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420	7A				KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	1	8A				U S COAST GUARD
WAIKEA SCB 88.2	9025	02	S HILO	2	19 40	155 08	1050	7A				SHINICHI KANESHIRO
WAIKANOULUA 178.6	9350	01	N KOHALA	1	20 08	155 47	3030	NO				KAHUA RANCH

↓ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "MONTHLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table, directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speed divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table; "Daily Temperature" table; and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute wind speed. This station is not equipped with an instrument to measure fastest mile data.
- Δ Amount included in following measurement, time distribution unknown.
- A The letter "A" shows following station name in "Climatological Data" table, "Daily Precipitation" table; and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

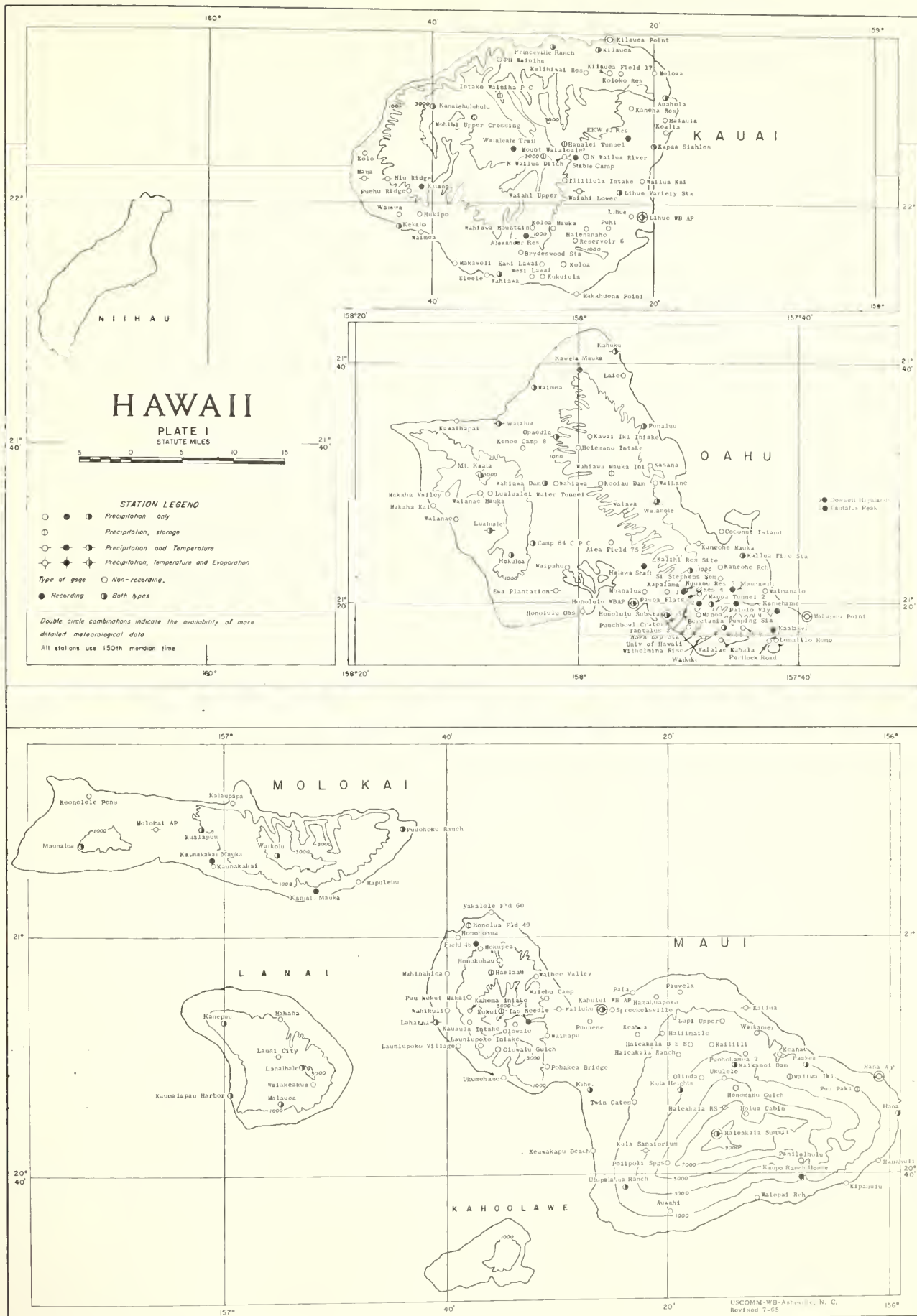
Stations appearing in the Index, but for which data are not listed in the tables, were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, MONTHLY CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

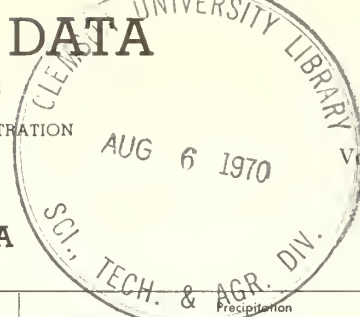
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CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE
ALEXANDER B. TROWBRIDGE, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE



HAWAII

MAY 1967

Volume 63 No. 5

CLIMATOLOGICAL DATA

Station		Temperature										Precipitation													
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days			Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days					
										Max.		Min.					Total	Max. Depth on Ground	Date	10 or More	.50 or More	1.00 or More			
										90° or Above	80° or Above	70° or Above											60° or Above	50° or Above	40° or Above	30° or Above	20° or Above	10° or Above	5° or Above	0° or Above
ISLAND OF KAUAI																									
ANAHOLA 1111	A	70.5	54.0	62.3		74	18*	47	7		0	0	0	8.35	5.40		2.10	16		.0	0		11	4	1
KANALDHULU 1075	A													6.51						.0	0				
KAPAA STABLES 1104	A													9.46						.0	0				
KILAUEA FIELD 17 1135	A	81.5	71.2	76.4		88	16	68	19		0	0	0	12.92	5.33		1.40	17		.0	0		11	5	4
KILAUEA POINT 1133	A													7.92						.0	0				
KOLDA 936	A													6.04	1.69					.0	0				
LIHUE WB AIRPORT	R	81.4	70.2	75.8	1.3	88	17	65	17*		0	0	0	4.05	1.46	.89	18			.0	0		6	4	0
MANA 1026	R	85.8	67.1	76.5	1.8	90	16	63	27*		1	0	0	1.27	.37	.54	18			.0	0		4	1	0
N WAILUA OITCH 1051														6.738						.0	0				
PH WAINIHA 1115														15.07	5.91	4.62	22			.0	0		14	8	3
PUEHU RIDGE 1040														5.49		2.20	22			.0	0		9	3	2
WAIHIAWA 930	A	79.6	63.2	71.4		85	16*	60	14*		0	0	0	3.05	1.55					.0	0				
WAIHIA LDWER 1054														17.15		4.34	30			.0	0		18	9	5
WAIHEA 947														2.16	1.31	1.03	8			.0	0		5	2	1
ISLAND				72.5										7.65						.0	0				
ISLAND OF OAHU																									
HONOLULU DBSERV 702.2	R	85.0	71.3	78.2	2.3	88	21	68	31*		0	0	0	1.17		1.00	20			.0	0		2	1	1
HONOLULU WBAP 703														2.12	1.13	1.07	18			.0	0		3	1	1
KAHUKU 912		82.3M	69.3M	75.8M	.9	87	18	65	8		0	0	0	8.89						.0	0				
KANEDHE MAUKA 781		81.0	70.2	75.6	1.4	85	31*	68	26*		0	0	0	10.65	6.10	3.14	19			.0	0		13	6	4
KODLAU OAM 833														9.46	3.35	1.50	19			.0	0		18	7	3
LUALUALEI 804														2.60		1.01	9			.0	0		5	3	1
MAKAPUU POINT 724		80.0	71.9	76.0		85	14	68	1		0	0	0	1.62	.59	.76	20			.0	0		4	1	0
NUUANU RES 4 783														7.70	- 2.13	2.40	18			.0	0		15	4	2
OPAEULA 870		80.6	65.3	73.0	3.2	86	17	62	9*		0	0	0	3.91	.63					.0	0				
PALDLD VALLEY 718														11.14	- .98	2.14	18			.0	0		16	7	5
PRI WAIHIAWA 820.2		83.9M	64.4M	74.2M		87	31*	59	18*		0	0	0	3.92		.98	19			.0	0				0
PUNALUU 884														16.98		2.50	21			.0	0				
WAIHIAWA OAM 863														4.63		1.58	19			.0	0				
WAIHOLE 837	A	84.5	65.5	75.0	1.6	90	18	59	1		1	0	0	15.74	3.59					.0	0				
WAIHIA 847	A													1.07	- .03	.73	19			.0	0		2	1	0
WAIKIKI 717.2		87.0	70.3	78.7		91	13	66	8		3	0	0	2.31		1.31	19			.0	0		4	1	1
WAIPAHU 750	A													2.05	.85					.0	0				0
ISLAND				75.8										5.34						.0	0				
ISLAND OF MDLCKAI																									
KUALAPUU 534	A													4.82	3.24	2.90	18			.0	0				1
MAPULEHU 542														3.10	.39	.89	17			.0	0		9	1	0
MAUNALDA 511														5.38	3.91					.0	0				
MDLCKAI AP 524		81.7	69.8	75.8		86	23	67	8		0	0	0	5.74		2.70	18			.0	0		5	3	2
ISLAND				75.8										4.76						.0	0				
ISLAND OF LANAI																									
LANAI CITY 672		77.5	64.8	71.2	2.7	81	28	61	3		0	0	0	8.74	6.07	2.32	18			.0	0		12	6	3
ISLAND				71.2										8.74						.0	0				
ISLAND OF MAUI																									
HALEAKALA B E S 434	A	62.6	45.5	54.1		70	5	40	6		0	0	0	1.64	- 2.76	.85	20			.0	0		5	1	0
HALEAKALA RS 338		83.7M	71.0M	77.4M		87	18	66	24		0	0	0	3.66		.80	20			.0	0		9	3	0
HANA AIRPORT	A													3.31	1.05	1.02	18			.0	0				1
HONOKOHU 493	R	85.1	68.2	76.7	1.4	90	15	64	9*		1	0	0	2.05	1.36	1.22	18			.0	0		2	2	1
KAHULUI WB AP														5.58	- 4.34	2.28	20			.0	0		11	2	1
KAILUA 446	A	80.6	67.1	73.9	3.5	83	15	62	9*		0	0	0	9.90	-11.20					.0	0				
KEANAE 346														7.09	- .85	2.45	19			.0	0		14	4	2
KIPAHULU 258		71.5	58.2	64.9	1.4	75	30*	55	24*		0	0	0	2.85	.75	.75	20			.0	0		6	3	0
KULA SANATDRUM 267		87.1	66.1	76.6		89	21*	62	24		0	0	0	2.65	2.30	1.86	18			.0	0		4	1	1
LAHAINA 361																				.0	0				
PAIA 406														1.26	- .85	.42	18			.0	0		4	0	0
WAILUKU 392		84.7	67.3	76.0	1.6	90	16	64	9*		1	0	0	3.19	1.93	1.33	20			.0	0		4	2	2
ISLAND				71.4										3.93						.0	0				

CLIMATOLOGICAL DATA

HAWAII
MAY 1967

CONTINUED

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date		No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										80° or Above	32° or Below	32° or Below	Below										
										80° or Above	32° or Below	32° or Below	Below										
ISLAND OF HAWAII																							
HAUNA 214	82.5	64.8	73.7	2.3	87	16	59	7		0	0	0		2.97	- 1.95	.84	27	.0	0	7	3	0	
HAWAII VOLCNS NP HO 54	69.8	53.7	61.8	1.2	79	22	51	31+		0	0	0		6.97	.90	1.72	12	.0	0	12	4	2	
HILO WB AIRPORT	84.6	69.5	77.1	4.1	91	18	67	25+		1	0	0		9.84	.51	2.69	14	.0	0	12	6	3	
HUEHUE 92A										6.07	1.40							.0	0				
KAINALIU 73B	78.8	62.5	70.7		82	31	59	25		0	0	0		6.26	- 1.44	1.04	4	.0	0	14	5	1	
KAMUELA AIRPORT	74.1	58.9	66.5		78	17	50	23		0	0	0		2.56		.96	14	.0	0	6	2	0	
KEAAU 92	83.6	65.5	74.6	2.1	88	19	63	25		0	0	0		11.55	1.67	2.72	12	.0	0	15	5	4	
KEALAKEKUA 26.2	79.8M	64.1M	72.0M		83	29+	61	26+		0	0	0		5.36		.99	24	.0	0	12	4	0	
KEHENA RESERVOIR 176.1										3.49								.0	0				
KONA AIRPORT 68.3	84.1	69.8	77.0		87	31+	67	25+		0	0	0		3.07		.85	7	.0	0	8	1	0	
KUKUIHAELE HIC 199										2.60	- 4.11					.66	27	.0	0	7	2	0	
KULANI CAMP 79	64.5	47.5	56.0		74	22	40	6		0	0	0		8.47		2.18	13	.0	0	6	3	0	
MAUNA KEA BEACH																							
PAHALA 21	80.0	63.3	71.7	.7	87	28	60	25+		0	0	0		5.97	3.65	3.91	15	.0	0	7	2	1	
POHAKULOA 107										2.66						1.15	14	.0	0	2	1		
PUAKO 95A										1.02						.46	17	.0	0	2	0	0	
PUU WAAWAA 94.1										3.95	1.22					.67	9	.0	0	11	3	0	
UMIKOA 118										V11.35						.0	0	.0	0				
WAIKOA SCO 88.2										13.41						2.38	15	.0	0				
ISLAND			70.1							5.66								.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 91° ON 18+ AT 3 STATIONS

LOWEST TEMPERATURE: 31° ON 29+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 32.79 INCHES AT ILIILIULA INTAKE 1050,
KAUAI

LEAST TOTAL PRECIPITATION: .04 INCH AT SOUTH POINT CORRAL 3, HAWAII

GREATEST ONE-DAY PRECIPITATION: 9.35 INCHES ON THE 15TH AT PAPAIIKOU
MAUKA 140.1, HAWAII

SPECIAL WEATHER SUMMARY

The major weather event of the month was a rainstorm of near cloudburst proportions which occurred over the northeastern section of Kauai during the afternoon of the 21st and the morning of the 22d.

The bulk of the rain in the Kapaa area fell from about 11:30 a.m. to 1:00 p.m. on the 21st.

Damage from the rains was centralized in an area between Kawaihau Road and Hauaala Road and a portion of Kuhio Highway. The aerial extent of the heaviest rain was between Waipouli and Moloaa on the northeastern coast of Kauai.

Two cars were swept from Hauaala Road near Kapaa and the pavement was peeled off in places. Seven thousand dollars (\$7,000) damage was done to equipment stored on the ground floor of two buildings alongside the road.

Two other cars were swept from the Kuhio Highway but escaped serious damage.

The Hanalei River flooded at 1:30 a.m. on the 22d, and continued heavy rains in the mountains kept low-lying areas near the river under water for nearly 2 days.

Six cattle were drowned when the Kealia Stream overflowed into the pasture land.

The ocean turned brown along the east coast of Kauai as tons of mud were deposited into the area.

At Anahola, 1.70 inches of rain fell in 30 minutes.

Locally heavy rains in the mountains near the Halawa Heights area of leeward Oahu caused the Halawa Stream to overflow on the afternoon of the 30th. The rapidly rising water resulted in one death, a girl who slipped into the stream and was carried away. A rain-caused rockslide covered Moanalua Road for over 2 hours.

A rain gage in the Halawa area recorded 1.60 inches of rain from 2:15 p.m. to 3:00 p.m. and 2.67 inches from 2:15 p.m. to 4:00 p.m.

Rainfall amounts for May varied widely over the island chain as well as for individual islands. Most stations reported rainfall near or above normal, excepting a large area north of Haleakala, Maui, and the northeast coast of Hawaii where amounts were well below normal. Rainfall at Haleakala Ranch, for example, was only about one-seventh of normal, while on the other hand, Waipai Ranch on the south coast of Maui reported rainfall 16 times its May normal of 1.85 inches.

The mean May temperature of 77.1° at Hilo was 4.1° above the 14-year May mean, a new record. The mean May temperature exceeded the mean at Lihue, Kauai; Honolulu, Oahu; Kahului, Maui; and Hilo, Hawaii. At Lihue, Kauai, a maximum temperature of 88° on the 17th broke the record May maximum by 3°.

Russell Dorr
Acting State Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
MAY 1967

Station		Total	Day of Month																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF KAUAI																																	
ANAHOLA 1111	A	8.35	.08	.04	.21	.45				.69	T	.03	.01	.05			.25	.06	.30	.32	.26		.61	.17		.02				.03	.09	.09	
BYRHOESWOOD STA 985	A	4.32	.07	.17	.09	T				.68	.01	.12	.02	.04					.30	.20	.05		.53	1.40	.25					.35	.02	.11	
EAST LAWA 934	A	6.34	.25	.23						.48	.01	.12	.02	.04					.09	.15	.01		.28	1.46	.15					.32		.21	
ELELEE 927	A	3.43	.05	T						.14		.55	.01						.25	.05			1.17	1.03	.09	T				.02		.07	
HALEAUA 1110	A	10.05	.11	.07	.20	.15					.09						.29	.05	.12	.04	7.81	.23							.03		.50		
HALENAHAO 1006	A	10.08	.07	.34	.34					.14	.33								.25	.63	.59	*	.43	.43	.70	.02	.06	*		.27	2.11	.18	
HUKIPO 945	A	2.60								.58	.10								.07	.18	.02		.29	.70			.04						
KILAUUE INTAKE 1050	A	32.79	.10	.48	1.20	.52	.03	.12	.05	.04	.06	.08	.10	.26		.03	.52	.07	2.55	.05	.48	4.00	5.50	3.93	4.74	.27	.08		.20	.40	.60	6.15	.18
KILAUUE INTAKE WAINIHA PC 1086	A	32.88	.15	*	*	1.00								.30					.12	.56	.12	.32	2.00	*		.00	*	*	.40	.135	*	*	
KALIHUAI RES 1131	A	13.39	.23	.46	.60	.53				.01	.13			.06			.39		.59	1.53	*		.60	.47		.02	.11	*		.87	.72	.07	
KANALOHULU 1075	A	6.51		.04	.23	.04				.17	.49							2.10	.72	.67	.32	.17	.99	.03		.09	.05			.13	.27		
KANEHA RESERVOIR 1092	A	16.71	.18	.13	.77	.33	.03	*		.10	.15			.15	*	.30		.04	.32	.40	.30	*	1.34	1.35		.20				.57	.15	1.20	
KAPAA STABLES 1104	A	9.46	.05	.18	.15	.26										.03		.02	.05	.50	.48	*	.67	.80	.10					.05			
KEALIA 1112	A	9.91	.06	.11	.15	.10					.05			.05		.15		.05	.12	.55	*	.80	.24							.07		.21	
KEKAA 944	A	2.11								.21	.07							.16	.31	.13		.63	.10	.50									
KILAUEA 1134	A	11.63	.19	.28	.26	.50	.02	*		.08	.17	.02	.03	.04	*	.07		2.10	1.55	*	*	.48	.28	.02	.05	.10	*	*		.38	.65	.04	
KILAUEA FIELD 17 1135	A	12.92	.25	.46	.40	.50	.03	*		.04	.33	.01	.12	*		.66		.54	1.64	*	*	5.89	.37		.05	.09	*	*		.87	.84	.03	
KILAUEA POINT 1133	A	7.92	.06	.34	.38	.03					.03			.01	.04	.04	.03	1.40	1.22	1.31	.22	1.32	.25	.02	.04	.14			.10	.92			
KOLO 1033	A	2.11								.65	.15							.95	.02	.11	*		.14	.30		.03	*	*		.40	.02	.21	
KOLOA 936	A	6.04	.03	.33	.28	*				.33				.02	.06				.02	.11	*		1.90	1.30	.09	.03	*	*				.17	
KOLOA MAUKA 994	A	11.88	.09	.39	.35	*				.43	.15			.07			.01	1.01	.20	1.11	*	*	3.11	2.95						.53	2.14	.45	
KOLOKO RES 1137	A	14.31	.20	.36	.30	.53	*			.04	.69			.13	*	.45	.01	.20	.18	*	*	.852	.31	.02	.08	.37	*	*		.33	.48	.16	
KUKULUA 935	A	1.87	.08	.15								.28						.03	.05	*	*	1.70	.48	.02						.06		.02	
LIHUE VARIETY STA	A	7.39	.03	.19	.15	.93	*			.02	.10	.47	.01	*		.09		.10	.17	.10	*	2.05	1.64	1.08	.01	.02			.29	.44	.45		
LIHUE 1020	A	4.12	.02	.33	.12	.03	*					.03					.02	.02	.93	*	*	2.15	.34	.03						.07	.01	.02	
LIHUE WB AIRPORT	R	4.05	.08	.33	.06	T			.01	.36	T			T			.01		.89	.34	.87	.86	.50	.03	T	T	.05				.02		
MAKAHUNA POINT	A	4.06	.06	.13						.36								.22	.24	.26	.80	.12	.66						.11		1.10		
MAKANEI 945	A	2.96	.01						.90	.03								.32	.09	.02	.68	.04	.50	.01							.11	.06	
MAHA 1026	A	1.27										.06	*	*				.54	.27	*	*	.80	.04	.06							.11		
MOHINI UPR CROSS 1083	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MOLOAA 1145	A	10.05	.15	.11	.09	.65					.33			.16	*	.04	.02	.23	.89	*	*	6.30	.84		.02	*	*			.17	.40	.05	
NIU RIDGE 1035	A	3.59								.22	1.05						.39	.51	.32	*	*	.37	.06		.06								
N WAILUA OITCH 1051	A	V67.28	.20	.61	1.13	.64	*			1.33	.27	.33	.07	.14	*	.351	.345	.11	.61	*	*	15.46	7.12	.47	.14	*	*			1.99	4.52	.13	
PH WAINIHA 1115	A	15.07	.04	.73	.58	.39					.07						.02	.25	.22	.95	1.95	.73	3.31	.46	.51	.05	.15	.16	.28	.02	T	.04	
PRINCEVILLE RANCH 1117	A	11.43	.04	.54	.35	.44					.07				.02	.29	.16	.02	2.63	.97	2.07	.99	1.36	.15	.04	.11	.05	.19		.07	.10	.61	
PUEHU RIDGE 1040	A	5.49								.52	.16	.05			.49			.18	.14	*	*	2.20	1.55		.10	*				.10			
PUNH 1013	A	5.53	.46	.16		.01	*			.09	.02			.03			.05	.05	.56	*	*	2.90	.52	.01	.01	.10	*			.16	.05	.50	
RESERVOIR 6 1004	A	9.15	.03	.26	.33					.39	.19			.05			.27	.36	.77	.36	*	*	2.97	.77						.46	2.57	.14	
WAIHANA 930	A	3.05	.01	.07						.11		.04	*	*				.27	.04	.04	*	*	1.59	.63	.16						.01		.08
WAIHANA MOUNTAIN 990	A	15.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15.50
WAIHAI LOWER 1054	A	17.15	.05	.51	.74	.37	.02	.03		.17	.18	.10	.03	.15	.01	.01	.02	1.86	.02	.12	.58	2.61	2.20	1.74		.04	.20		.25	.15	4.34	.67	
WAIHAI UPPER 1052	A	23.75	.05	.33	.93	.53	.10			.19	.12	.20	.11	.17	.01	.01	.03	.02	3.06	.02	.25	.75	5.95	2.57	2.67	.47		.25	.35	.10	3.81	.70	
WAIHANA 943	A	2.59								.31					1.09			.21	.21	*	*	.38	.02	.58									
WAILUA KAI 1065	A	4.33	.09	.11	.23	.22				1.03		.01			.07			.03	.21	.11	.12	*	.243	.80	.20							.06	
WAIHANA 947	A	2.16																					.55										
WEST LAWA 931	A	3.69		.07	.08	*			.07		.86	.01					.33	.03	.02	*	*	1.07	.89	.12	T	*				.11		.03	
ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	4.82		.02	.05	*		.28	.21	.06	.07	.03			*	*	.32	.89	.01	.96	*	*	.10	.14	.30	.32	*	*		.03		1.18	*
BEHETANIA PUMPING STA	A	3.83								.06	.07	.03			*	*		.09	.09	2.40	.06	*	T	.27	.19	.15	*	*		.03		.48	*
CAMP 84 C P C 807	A	2.77			.03					.05					*	*	.09	.24	.02	.90	*	*	.19	.26	.19	.29	*	*			.42		
CHURCH COLLEGE LAIE	A	4.23	.06	*	.32		.08			T		T	.09		.34			.01	*	.52	2.02	.34	.17	.02	.04	T			.02	.07	T		
COCONUT ISLAND 640.1	A	6.06	.01	.05	.10					.02	.01		.01				.27	.02	.55	.01	2.97	1.20	.27	.01	.02	.22	.04	.10	.02		.01		
FWA PLANTATION 781	A	1.15															.31		.31	.10	.04			.02	.06	.13	*	*		.15		.03	
HELEMANA INTAKE 841	A	10.87	.08	*	*	.38	*	*		.21	*	*	.10	*	*		3.04	*	3.20	*	*	1.87	*		.02	.06	.						

HAWAII
MAY 1967

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See reference notes following Station Index

DAILY PRECIPITATION

HAWAII
MAY 1967

Continued

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KAMUELA AIRPORT	2.56	T			.02	.60				.15	T		.02	.45	.96		.03	.12	T		.12	T						.02				.06		
KAPAPALA RANCH 36	8.97		.47						.39	.05		.29	.32	.59		3.00	2.45	.20	.08	.04		.04	.15								.62	.04	.24	
KAPOHO LANDING 935	6.77					.25								2.56													.27							
KAUNANA 88.1	14.10	.06	.25	.10	.01	.64	.62	.22	.13		.23	.38	2.00	1.88	.24	2.05	.02								.06	.07		1.16	3.10	.20	.68			
KAWAIIU LOWER 193	7.24					2.35							1.82							1.56								1.51						
KEAUA 92	11.55	.09	.26	.22	.03	.65	.28	.22	.30	.06	.09	2.72	2.22	.48	1.65	.02						.01			.16	.08	.05	.68	1.18	.18	.13		.01	
KEALAKEUA 26+2	5.36		.25	.14	.72	.04	.01	.29	.28	.05	.07	.37	.17		T	.07	.57	.66						T	.99	.09	.39		.07	T	.11		6.40	
KEHEHA 181.2	6.40																																	
KEHEHA RESERVOIR 176.1	3.49	.65	.10											.03		1.10		.03	.35					.02	.03	.05		.13			.75		4.80	
KIOLAKA A + F 6	4.80																																	
KIPA 89.2	19.35	.05	.21	.02	.02	.63	.76	.47	.10	.67	.81	1.45	2.69	.08	4.94	.15					T	.01		.37	.05	.07	1.32	3.14	.35	.99				
KOHALA 179A	2.37	.34	.18					.18			.02	.01	.09			.26				.09				.18	.13	.06	.05	.22				.56		
KOHALA MAULILI 176	3.25	.96	.53					.01		.13	.01	.13			.33			.04	.08					.03	.16	.03	.13	.23				.40	.05	
KOHALA MISSION 175.1	2.76	.03	.24	T					.10	.03	.03	.10	.62	.01			.01	.13			T	.24		.09	.11	.09	.22	.42	.06	.23	T			
KOLANE LOWER 196	4.52					1.29							.98							1.51								.74						
KONA AIRPORT 68.3	3.07	T	T		.48	T	.05	.85	.23	T	.05		.07	.02	.19			.07	T			.44							T	.25	.20	.07	.10	
KUKAIUA 222	5.27	.08	T										.35	.17	.04										.26	.01	.27	1.70	2.35	T				
KUKUIHALE HIC 199	2.60	.27	.15										.30	.33	.03									.02		.20	.01	.63	.66					
KUKUIHALE MILL 206	2.19	.10	.09										.33	.18	.01									.03		.30	.07	.67	.38					
KULANI CAMP 79	8.47	.03	.12				.50		.20			.15	1.65	2.18	1.10					.10		.22	.05		.05		.42	.20	.65	.60		.05	.20	
KULANI MAUKA 76	2.71	.03				.02				.05	.03	.11	.31	1.00	.23	.15					.05				.08		.03	.22	.10				.30	
KULANI SCHOOL SITE 78	6.22	.50				.15							1.88														.37	1.97		.12		.12	.85	
LAKIHAU 68 C	10.19		.17		1.31	.20	.10			.61	.23	.04	.45		.62	.11	.12	1.68	1.28		.04	.03					.15				.50			
MAUKA 2	3.48	1.56	.26																					.06			.15							
MAUNA KEA BEACH																																		
MAUNA LOA SLOPE 085	2.75										.15	T	.85	.42	.27	.11		.03										.15	.01				.07	
MIDDLE MOULUALA 68.1	2.99	.08			.23	.13	T	.03	.58				.18		.05	.07		.28		.66							.42	.60			.02		.17	
MIDDLE PEN 147.1	2.09																.70		1.39															
MOAULA 18	5.40																																5.40	
MOUNTAIN VIEW 91	12.84	.15	.27	.21	.03		.92	.56	.47	.20	.35	.29	1.36	1.42	.30	1.07	.06								.03	.28	.13	.38	3.45	.50	.41			
NAALEHU 14	3.77	.61	.01			.35	.15	.35	.02	.03	.15	.11	.76	.05	.74	.33	.05	.02	T					.01					T			.03		
NAPOOPOO 28	3.55	.26													.70									.38								1.57		
NAULU FOREST 38.6	1.86		.01			.54	.27	1.46	.58	.14	.07	3.10	3.03	2.28	.22	.41	.18	.06	T						.03	.06			.25	.06		.11		
NIHILI 179	3.08	.33	.30					.14			.03	.02	.15			.30				.01	.50			.15	.08	.05	.02	.40			.58			
OOKALA 223	5.58	.04	.05									.12	1.05	.14	.04	.03	T			.02	T				.17	.36	.03	.56	2.95	.02	T			
OPHIHALE 2 24.1	5.20	T		.06	.03	.29	.03		.10	T	1.05	.54	.01	.02	.33	.28	.32	.23	.21	.06	.19	T		.02	T	.03	.60	T					.80	
ORCHID LAND EST 91.5	9.64				.24	.29							3.88															.80						
PAAHU 217	2.58	.06	.09								.51	.07	.03												.15	.09		.71	.87	T	T			
PAUULO 221	3.75	.04	.01						.01	.08	.03	.06	.28	.73	.24	3.91	.30	.02	T							.25	.01	.14	.93	1.97				
PAHALA 21	5.97		.05				.01	.12	.08		.03	.06	.28	.07	.33	2.43	.91	.30	.02			.12							.01				.01	
PAHOA 65	13.31	.11	.41	.10	.03		.40	.25	.20	.07	.03	.10	2.24	3.20	.69	2.39	.20									.18	.13	.07	.28	1.74	.26	.20	.03	
PAKAO 37	11.50																																11.50	
PAPAIAU 144A	12.22	.08	.24	.06	.10		.20	.38	.03	.06	.12	.03	1.70	1.89	.04	4.28	.03										.11	.04	.01	.34	1.60	.46	.41	.01
PAPAIAU MAUKA 140.1	20.52	.11	.19	.09	.04	.01	.41	.69	.29	.11	.38	.31	1.42	1.92	.06	9.35	.26										.07	.05	.11	1.48	1.89	.43	.85	
PEPEKEO MAKAI 144	10.47	.08	.20	.12	.03		.14	.22	.02	.04	.03	.29	1.62	1.45	.02	2.92	.02										.02		.01	1.57	.78	.42	.45	.02
PIIHONUA 89	22.04																																22.04	
POHAKULOA 107	2.06										.32			.32	.60	1.15	.27																	
PUAKO 95A	1.02									.04			.02		.30	.06		.01	.46		.04										.04			
PUU KAPU 192.1	4.73																																4.73	
PUU KIME 120	4.44																																4.44	
PUU LAUA 102.1	4.35																																4.35	
PUU LEHUA 73	3.60																																3.60	
PUU MALI 113	4.46																																4.46	
PUUOKUPA 167	10.06	.60	.35		.04								.08		1.35		.90	.05						.05	.05	.03	.04	.11			.36		.32	
PUU OO 82	6.59	.15	.12	.02		.65	.31	.34	.11	.27	.21	.67	.80	.12	.94	.09	.15	.02	.07	.07					.01	.08			.10	.45	.26	.17	.41	
PUU WAHAA 94.1	3.95	.02	.24		T	.15		.59	.67	T		.05	T		.61	.03	.13	.31		.07	.25							.09			.32		.10	
SAGOLE ROAD 1 84	13.26					1.21						5.55																	2.50					
SOUTH POINT CORRAL 3	.04																																	

DAILY TEMPERATURES

HAWAII
MAY 1967

Station		Day Of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																		
ISLAND OF KAUAI																																		
XANALOHULUHULU 1075	MAX	69	69	72	72	69	72	71	72	70	68	71	70	70	72	74	74	74	74	67	70	72	70	65	67	68	69	72	72	71	71	70	70.5	
	MIN	55	57	57	54	52	48	47	54	53	53	50	49	49	49	53	54	51	61	57	58	60	59	57	55	56	53	55	57	54	54	52	54.0	
KILAUEA POINT 1133	MAX	79	80	78	81	80	80	81	84	80	82	81	81	82	83	83	88	85	87	81	82	79	79	80	81	81	81	81	81	81	80	86	81.5	
	MIN	70	69	73	72	73	69	70	71	74	72	70	70	70	74	73	71	71	70	68	70	71	70	72	70	71	71	72	72	73	72	72	71.2	
LIHUE WB AIRPORT	MAX	78	81	79	81	82	82	83	81	79	82	83	82	82	86	84	83	88	80	82	78	76	78	80	81	81	81	82	82	83	83	80	84	81.4
	MIN	71	71	73	74	68	74	65	68	70	74	73	69	67	65	67	71	65	68	69	70	69	72	71	72	71	72	72	73	74	71	68	70.2	
MAHAUENA POINT	MAX	82	80	83	82	82	86	87	86	86	84	85	84	85	86	89	88	88	91	85	84	84	82	81	82	82	82	82	83	84	87	81	84.3	
	MIN	67	70	70	70	68	68	67	68	70	72	67	70	75	72	69	70	70	72	70	69	72	71	71	74	71	72	72	71	72	74	70	70.5	
MANA 1026	MAX	87	87	85	84	84	87	84	87	85	83	84	84	85	86	89	90	89	87	82	87	84	85	83	85	88	87	86	85	85	88	88	85.8	
	MIN	65	65	66	65	67	66	66	67	68	67	67	67	67	66	68	70	70	70	70	70	70	70	67	65	65	63	63	68	68	68	67	67.1	
NIU RIOGE 1035	MAX	82	79	81	82	81	80	81	82	78	78	80	80	80	81	81	82	83	82	81	82	83	82	80	79	80	80	80	81	82	80	81	80.8	
	MIN	59	60	63	65	64	65	64	62	65	64	64	64	64	65	65	65	65	65	65	66	65	64	64	64	65	60	62	64	60	61	63	63.6	
WAIHAI LOWER 1054	MAX	75	78	76	78	81	80	82	80	78	80	80	80	82	84	85	85	84	81	78	77	76	76	78	79	79	79	80	81	79	78	80	79.6	
	MIN	63	61	62	63	62	63	60	62	63	62	62	61	60	60	63	65	62	63	65	65	65	66	64	64	65	65	65	65	66	64	63	63.2	
* * *																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX	84	86	86	87	86	87	80	84	82	87	86	86	86	88	87	86	86	83	83	85	89	87	85	83	85	87	89	88	86	85	84	85.6	
	MIN	66	70	69	67	68	67	68	65	67	68	66	65	69	67	68	69	67	72	69	69	69	70	72	67	66	67	69	70	68	66	68.1		
HONOLULU WBAP 703	MAX	84	87	85	87	85	87	80	84	84	85	85	87	84	86	86	85	86	82	82	83	88	86	85	84	84	86	87	86	86	84	85	85.0	
	MIN	72	73	72	72	72	72	70	68	69	70	71	68	73	71	72	72	71	73	72	72	73	74	71	71	70	71	71	73	73	71	68	71.3	
HONOLULU SUBSTA 704	MAX	80	82	82	83	83	82	78	79	82	83	82	84	81	81	83	81	82	78	80	83	84	82	82	79	79	81	83	82	84	82	82	81.5	
	MIN	72	73	73	73	72	67	69	70	71	72	73	70	73	72	73	74	73	71	73	73	74	75	71	70	70	70	73	73	74	67	67	71.6	
XAHUXU 912	MAX	80	80	81	81	81		82	82	82	82	82	82			85	85	84	87	82			82	82	81	81	81			83	83	83	82.3	
	MIN	69	69	68	71	70		65	68	70	72	70				66	71	66	68	68			68	70	72	71	71			71	73	66	69.3	
KANEHE MAUXA 781	MAX	80	77	80	80	81	82	81	80	81	82	79	81	82	80	81	80	85	80	82	76	85	79	82	82	79	81	81	82	82	84	85	81.0	
	MIN	69	70	72	71	70	71	69	69	70	69	72	70	71	69	70	71	69	70	70	69	70	72	73	69	68	68	71	71	73	71	69	70.2	
MAKAPUU POINT 724	MAX	79	77	79	78	78	81	79	79	82	80	80	79	79	85	83	84	83	83	79	73	82	81	80	80	78	78	79	80	80	80	82	80.0	
	MIN	68	70	69	72	70	72	71	72	70	72	69	72	72	74	73	75	74	72	71	69	72	75	73	72	72	71	72	74	74	73	75	71.9	
OPAEULA 870	MAX	85	78	78	78	78	78	80	78	78	80	81	78	84	82	85	84	86	85	80	78	80	81	81	78	78	79	80	83	81	83	80	80.6	
	MIN	66	66	66	66	65	64	64	62	62	64	64	63	64	63	66	66	68	67	64	65	66	67	66	64	65	65	67	70	67	67	65	65.3	
PRI WAHIAWA 820.2	MAX	82	82	83	83	84	85	85	85	82	86	86	86	86	86	86	87	85	86	79	79	86	86	84	83	80	82	82	85	85	87	83.9		
	MIN	62	65	68	66	63	64	66	61	63	66	63	61	66	65	61	60	59	59	66	68	66	66	69	65	65	64	66	70	66	63	64.4		
WAIALUA 847	MAX	82	83	83	84	86	85	84	82	84	84	85	85	87	85	86	86	86	90	78	82	83	87	85	83	82	83	84	86	85	88	86	84.5	
	MIN	59	63	67	64	64	64	66	63	64	66	63	62	63	68	67	68	67	70	67	67	70	68	66	66	64	64	65	66	68	66	66	65.5	
WAIKIKI 717.2	MAX	86	87	87	87	88	89	87	80	85	87	87	87	91	87	87	90	89	88	84	87	86	88	86	85	86	86	86	88	88	90	88	87.0	
	MIN	71	72	73	72	68	71	70	66	67	69	70	67	71	67	69	67	69	73	72	71	71	73	73	70	70	70	72	74	71	72	67	70.3	
* * *																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX	80	80	82	82	83	83	80	79	78	82	82	80	85	81	85	83	83	83	75	78	83	82	86	81	80	81	81	84	85	84	82	81.7	
	MIN	71	68	69	69	69	69	70	67	69	69	70	70	69	72	69	70	70	68	69	70	74	68	72	68	69	72	71	76	69	69	69	69.8	
* * *																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX	75	78	80	80	79	77	76	79	80	75	76	77	78	77	80	78	77	74	72	76	74	77	79	79	77	80	78	81	78	79	77	77.5	
	MIN	64	62	61	63	64	65	66	64	65	64	64	66	65	67	66	65	66	64	63	64	66	65	67	65	64	65	68	66	64	64	66	64.8	
* * *																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX	64	65	65	65	70	62	62	61	61	58	61	61	61	63	63	64	64	64	61	61	65	66	61	63	60	61	60	61	63	63	62	62.6	
	MIN	45	44	52	53	43	40	41	41	42	44	51	42	42	45	48	47	46	55	54	47	47	50	44	44	45	42	41	45	45	44	43	45.5	
HALEAKALA SUMMIT 338.4	MAX	57	58	52	55	59			57	55	58	56	57			56			55	57	55	56			55	57	56						56.3	
	MIN	47	46	36	40	50			44	49	50	50	45			49	46	48	43	45					44	42	43	44	45		43		45.2	
HANA AIRPORT	MAX						76	81	84	82	83	84	85	82	83	85	85	84	87	79	82	84	85	85	85	85	85	85	86	85	85	84	83.7	
	MIN						72	69	73	72	70	70	70	70	68	75	75	71	70	71	71	71	71	71	73	66	72	70	73	69	71	72	71	71.0
XAHULUI WB AP	MAX	82	86	86	86	87	85	87	84	85	86	85	87	82	88	90	88	85	78	80	87	85	84	83	82	83	85	85	86	88	87	85	85.1	
	MIN	71	65	66	65	64	65	64	66	64	70	67	66	72	68	68	70	67	74	71	71	67	73	73	71	70	71	69	69	66	66	65	68.2	
XAILUA 446	MAX	81	81	81	81	81	81	81	81	80	77	80	79	80	80	83	82	82	82	82	81	82	82	80	80	80	79	79	80	80	80	80	80.6	
	MIN	62	62	62	62	62	62	62	62	62	66	70	65	70	71	68	70	69	69	67	72	73	71	70	69	67	68	70	71	69	67	70	67.1	
XULA SANATORIUM 267	MAX	72	72	74	73	74	72	73	72	72	69	69	71	75	72	74	70	70	69	68	68	69	71	70	69	75	72	72	72	73	75	71	71.5	
	MIN	56	57	57	56	57	59	58	59	59	59	60	61	61	60	60	58																	

DAILY TEMPERATURES

HAWAII
MAY 1967

Continued

Station		Day Of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF HAWAII																																		
HAINA 214	MAX	74	78	81	80	80	81	78	81	80	82	82	81	80	81	86	87	85	86	84	85	86	83	85	83	85	83	86	82	84	85	85	82.5	
	MIN	63	66	66	63	64	64	59	63	62	65	64	64	66	65	65	68	67	66	66	63	65	68	66	64	63	65	64	67	67	64	66	64.8	
HAWAII VOLCN5 NP H0 54	MAX	68	68	70	70	70	71	63	68	65	65	68	71	71	69	66	70	71	74	74	71	75	79	70	68	70	69	67	71	67	72	72	69.8	
	MIN	55	52	54	52	51	51	51	54	52	54	55	57	57	55	58	57	54	53	53	53	53	53	54	52	51	54	56	55	56	52	51	53.7	
HILO WB AIRPORT	MAX	82	84	84	85	84	81	82	81	82	85	84	85	83	79	84	86	87	91	87	88	87	85	84	85	85	84	86	84	86	87	87	84.6	
	MIN	68	68	69	68	67	68	68	69	68	71	71	71	71	71	73	70	69	69	68	69	71	69	70	67	67	71	72	71	72	70	69	69.5	
KAINALIU 73B	MAX	80	78	80	77	79	79	79	77	77	79	77	79	80	80	78	81	77	72	79	77	80	81	80	78	78	78	80	80	81	80	82	78.8	
	MIN	63	62	62	64	61	61	61	62	62	65	63	63	65	62	64	64	62	64	63	62	62	63	62	61	59	61	63	63	62	63	63	62.5	
KAMUELA 192.2	MAX	71	71	72	74	76	76	73	77	76	80	74	72	80	77	80	80	81	81	78	79	80	79	72	71	72	72	74	72	75	80	78	75.9	
	MIN	57	58	52	53	55	59	49	50	53	58	58	58	58	57	57	60	57	61	55	53	56	59	58	58	58	57	60	58	56	50	53	56.2	
KAMUELA AIRPORT	MAX	71	72	74	74	76	74	73	74	74	74	75	73	75	74	76	76	78	75	75	75	76	75	72	73	72	73	71	74	75	75	74	74.1	
	MIN	65	55	54	54	54	64	54	65	54	60	58	59	66	59	65	58	56	64	59	58	60	59	50	55	58	61	61	60	62	59	59	58.9	
KEAAU 92	MAX	83	80	84	83	83	82	82	82	80	80	81	82	85	85	85	82	84	86	88	87	87	87	82	82	82	83	85	85	85	85	85	83.6	
	MIN	64	65	65	65	64	64	64	64	65	65	67	67	68	68	68	68	67	64	64	65	65	65	66	64	63	64	67	67	67	67	65	65.5	
KEALAKEUA 26.2	MAX	80	80	80	77	80	80	80	80	78	81	79	81	80	80	79	82	78	77	79	78	83	81	80	79	79	77	81	81	83	82		79.8	
	MIN	64	63	64	66	64	62	62	64	64	66	64	64	65	65	66	65	64	65	64	64	65	64	65	63	61	61	64	66	65	65		64.1	
KOHALA M15510N 175.1	MAX	77	76	80	80	81	81	79	80	79	83	80	80	82	82	84	83	82	85	85	81	84	82	81	80	80	80	80	81	80	82	83	81.1	
	MIN	65	68	69	69	68	68	65	64	64	66	66	66	67	68	68	68	68	71	68	66	66	66	67	66	67	67	68	69	70	65	66	67.1	
KONA AIRPORT 68.3	MAX	82	81	83	84	83	82	83	82	81	83	86	84	83	84	83	85	87	86	84	84	84	84	85	86	85	85	85	86	85	84	87	84.1	
	MIN	70	70	70	69	70	70	70	67	69	69	70	70	69	70	70	69	71	71	71	69	71	72	71	68	67	69	70	70	70	70	70	69.8	
KULANI CAMP 79	MAX	64	64	64	65	64	56	64	64	62	66	64	64	66	58	64	67	66	69	68	67	69	74	64	64	62	62	59	63	64	65	67	64.5	
	MIN	48	44	46	42	45	40	45	51	47	51	50	54	53	51	54	46	45	47	47	42	42	46	50	46	46	45	52	51	54	46	47	47.5	
MAUNA KEA BEACH	MAX																																	
	MIN																																	
MAUNA LOA SLOPE OBS	MAX	52	56	52	53	55	53	52	54	54	54	51	45	48	48	48	50	53	53	50	55	51	53	50	53	51	51	52	53	55	51	51	51.8	
	MIN	34	34	35	34	34	36	35	36	37	41	36	37	37	36	37	36	36	34	35	37	35	33	31	33	35	35	35	34	31	33	34	35.0	
MOUNTAIN VIEW 91	MAX	70	73	77	78	79	78	70	74	71	74	74	76	77	75	73	76	78	81	84	82	83	83	79	76	78	78	72	78	74	79	79	76.7	
	MIN	63	59	60	58	57	57	60	63	60	59	61	61	64	64	66	65	61	61	61	60	62	62	61	59	58	58	60	63	63	60	60	60.8	
NAALEHU 14	MAX	81	78	80	81	80	80	81	81	79	79	79	80	80	81	81	80	77	81	82	82	82	82	80	80	82	81	81	82	82	82	81	80.6	
	MIN	67	68	70	69	67	67	65	65	67	67	67	68	68	67	67	68	68	66	67	67	66	66	68	65	63	66	66	66	68	67	68	66.9	
OOKALA 223	MAX	75	79	82	80	80	82	80	82	81	82	81	82	81	81	83	83	81	83	84	81	83	83			82	83	82	78	82	82	81	81.4	
	MIN	67	68	68	69	68	68	67	66	67	66	68	68	69	68	69	69	68	70	68	66	67	68			66	65	67	67	68	68	69	68	67.7
OPIHIHALE 2 24.1	MAX	81	82	80	81	83	76	76	77	78	76	78	77	78	79	83	77	75	78	77	83	81	81	80	81	74	79	84	83	82	82	83	79.5	
	MIN	62	64	63	60	60	61	62	61	63	63	63	65	62	60	64	63	62	62	62	62	63	60	62	62	62	59	61	61	62	62	63	63	62.0
PAHALA 21	MAX	80	78	80	80	80	80	77	79	72	78	79	81	80	80	79	79	78	79	80	81	80	82	82	81	82	81	80	87	81	82	81	80.0	
	MIN	63	62	63	64	64	60	62	64	63	65	63	64	65	65	66	67	64	63	63	64	64	61	62	61	60	61	64	66	66	62	62	63.3	
UPOLU POINT USCG 159.2	MAX	81	84	82	82	83	81	82	82	81	81	81	83	82	83	86	87	86	84	85	86	86	82	84	81	82	83	82	83	83	84	85	83.1	
	MIN	66	64	68	66	71	68	67	69	65	68	71	69	74	74	67	66	73	71	73	73	71	67	69	70	69	68	65	67	67	70	68.9		

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
LIIHUE WB AIRPORT	EVAP	.28	.25	.33	.25	.23	.26	.27	.26	.26	.13	.30	.30	.27	.30	.30	.30	.22	.29	.23	.19	.15	.20	.23	.44	.40	.39	.35	.26	.35	.30	.13	8.42
	WIND	167	157	155	103	70	72	56	*	84	49	93	89	54	48	47	56	49	53	69	80	179	164	176	205	169	178	146	115	98	71	38	3090
	MAX	87	87	86	86	85	90	90	92	93	94	90	90	92	95	95	93	92	95	80	87	88	76	83	86	88	89	89	92	94	87	89.0	
	MIN	67	67	69	68	68	69	68	67	66	68	69	68	67	67	69	72	68	69	68	69	69	69	68	66	67	66	68	71	71	71	69	68.3
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.30	.20	.28	.26	.26	.26	.33	.10	.24	.22	.26	.24	.28	.29	.28	.26	.25	.26	.25	.30	.20	.30	.32	.28	.27	.28	.34	.25	.32	-	-	8.218
	WIND	37	38	57	48	38	28	36	16	23	23	36	38	22	27	24	23	24	25	20	26	13	36	53	48	37	38	45	42	38	14	18	989
	MAX	89	90	90	88	92	95	95	83	94	90	90	91	96	96	94	95	94	96	95	95	97	95	-	-	-	-	92	-	93	-	-	922.7
	MIN	65	68	68	68	69	68	70	67	68	70	67	67	68	70	71	71	71	72	70	70	72	69	67	68	68	67	68	70	71	72	72	69.1
ISLAND OF HAWAII																																	
HILO WB AIRPORT	EVAP	.11	.20	.24	.32	.18	.06	.13	.20	.12	.20	.21	-	.05	.16	.18	.23	.19	.28	.23	.33	.28	.29	.18	.27	.25	.16	.26	.09	.30	.27	.33	6.518
	WIND	32	71	91	100	70	64	72	68	74	82	73	72	65	40	83	86	107	83	77	110	67	74	69	80	78	77	78	54	72	92	103	2364
	MAX	84	90	89	89	82	79	83	81	81	86	85	84	82	75	85	88	88	90	87	88	91	92	88	91	91	85	90	82	90	89	88	86.2
	MIN	67	66	67	65	65	66	66	65	67	67	68	69	68	70	68	70	67	68	67	68	71	67	70	65	65	68	69	68	69	68	68	67.4

HAWAII
MAY 1967

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STATION INDEX

HAWAII
MAY 1967

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL	
ISLAND OF HAWAII												
NAALEHU 14	A 6588	03 KAU		19 04	155 35	673	8A	8A				HUTCHINSON SUGAR CO
NAPOOPOO 28	A 6597	08 S KONA		19 28	155 55	395		7A				KONA EXPERIMENT STA
NAULU FOREST 38+6	8731	02 PUNA		2 19 19	155 08	1400		VAR				HAWAII VOLCANOES NAT PA
NIULII 179	A 8808	01 N KOHALA		20 14	155 45	75		6A				KOHALA SUGAR CO
OSKALA 223	7131	02 N HILO		2 20 01	156 17	870		7A				LAUPAEMOHE SUGAR CO
UPRIHALL 2 24+1	7168	04 S KONA		4 19 16	155 53	1270		7A				MISS C LEONARD
ORCHID LAND EST 91+5	A 7183	02 PUNA		2 19 34	155 00	445		7A				BOARD OF WATER SUPPLY
PAANAU 217	7204	01 HAMAKUA		1 20 05	155 24	415		7A				PAANAU SUGAR CO
PAALILLO 221	7312	01 HAMAKUA		1 20 03	155 22	800		7A				HAMAKUA MILL CO
PAHALA 21	7421	03 KAU		1 19 12	155 29	870		8A	6A			HAWAIIAN AGR CO
PAHUA 65	7457	02 PUNA		1 19 30	154 57	677		6A				PUNA SUGAR COMPANY
PAKAO 37	A 7649	03 KAU		2 19 22	155 28	5000		MO				HAWAIIAN RANCH CO INC.
PAPAIKOU 144A	7711	02 S HILO		2 19 47	155 06	200		7A				HAUNA KEA SUGAR CO
PAPAIKOU HAUKA 140+1	7721	02 S HILO		2 19 47	155 08	1270		7A				HAUNA KEA SUGAR CO
PEPEKEO MAKAI 144	8+00	02 S HILO		2 19 51	155 05	100		7A				PEPEKEO SUGAR CO
PIHONUA 89	A 8051	02 S HILO		2 19 44	155 10	1730		MO				STATE DIV OF FORESTRY
POHAKULA 107	A 8063	02 HAMAKUA		2 19 45	155 32	6511		VAR				STATE DIVISION OF PARKS
PUAKO 95A	8186	05 KOHALA		5 19 59	155 30	5		6A				WILLIAM PAYNE
PUU KAPU 192+1	A 8383	01 S KOHALA		1 20 02	155 39	2870		MO				STATE DIV OF FORESTRY
PUU KIME 120	A 8393	01 HAMAKUA		1 19 54	155 24	7750		MO				KUKAIAU RANCH CO
ISLAND OF HAWAII												
PUU LAU 102+1	A 8452	05 HAMAKUA		5 19 50	155 36	7440		MO				STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04 N KONA		4 19 34	155 49	4850		MO				GREENWELL RANCH
PUU MALI 113	A 8515	01 HAMAKUA		2 19 55	155 26	6960		MO				KUKAIAU RANCH CO
PUUOKUHA 167	8548	01 N KOHALA		1 20 12	155 50	1800		7A				KOHALA DITCH CO LTD
PUU OO 82	8550	02 S HILO		2 19 44	155 23	6340		6A				W. H. SHIPMAN, LTD
PUU WAHAA 94+1	8555	05 N KONA		5 19 47	155 51	2520		7A				DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02 S HILO		1 19 42	155 12	4360		WM				BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03 KAU		3 18 57	155 41	400		WI				HUTCHINSON SUGAR CO
5 POINT TRACKING STA	8679	03 KAU		3 18 57	155 41	305						FEDERAL ELECTRIC CORP
UNIKOIA 118	8700	01 HAMAKUA		1 19 59	155 23	3420		7A				KUKAIAU RANCH CO
UPOLU POINT USCG 159+2	8830	01 N KOHALA		1 20 15	155 53	1		8A	8A			U S COAST GUARD
WAIKEA SCD 88+2	9025	02 S HILO		2 19 40	155 08	1050		7A				SHINICHI KANESHIRO
WAIKANONULUA 178+6	9350	01 N KOHALA		1 20 08	155 47	3830						KAHUA RANCH
CLOSED STATIONS												
ISLAND OF OAHU												
LAIE 903	A 5213	01 KOOLAPOKO		1 21 39	157 56	6		7A				CLOSED 4/30/67
NEW STATIONS												
ISLAND OF OAHU												
CHURCH COLLEGE LAIE	0340	01 KOOLAPOKO		1 21 39	157 56	20		5P				RICHARD COBURN
LULUKU 781+7	9655	01 KOOLAPOKO		1 21 24	157 49	240						HILNOR LUM
ISLAND OF HAWAII												
HAUNA KEA BEACH	6180	04 S KOHALA		1 20 01	155 50	103		8A	8A			U S WEATHER BUREAU

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLA 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIRECTIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table; "Daily Temperature" table; and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station name in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount indicated in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Climatological Data" table; "Daily Precipitation" table; and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

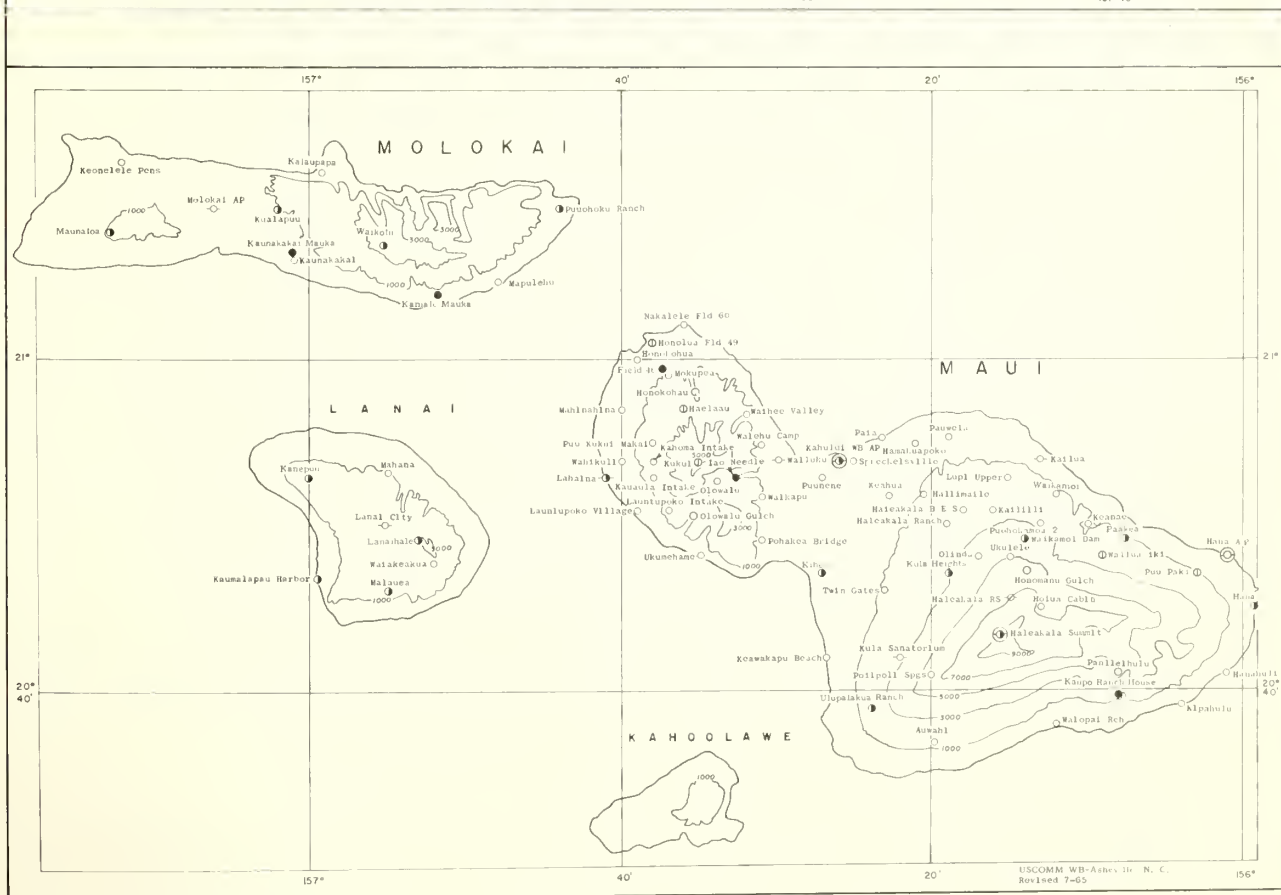
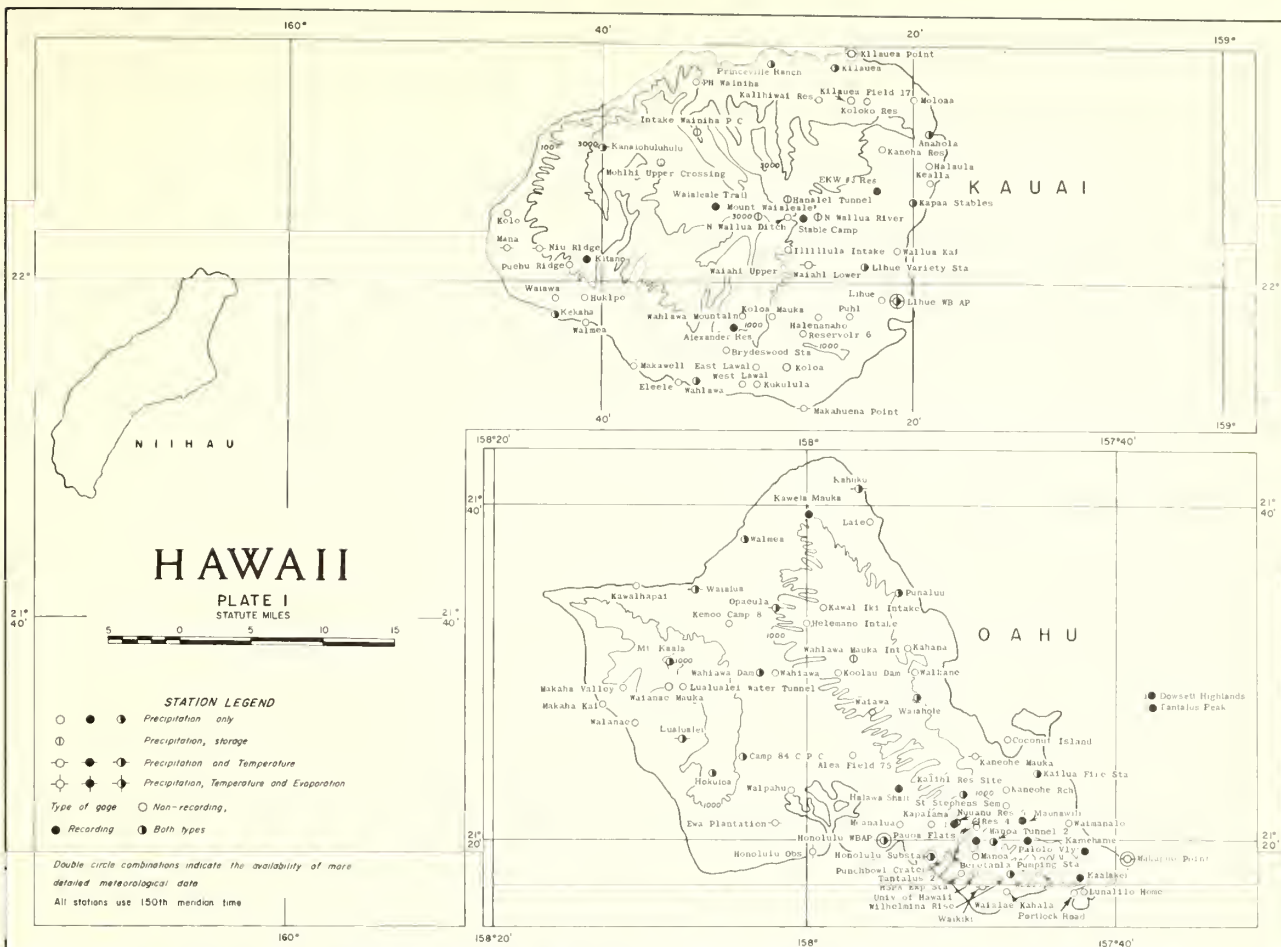
- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above and-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

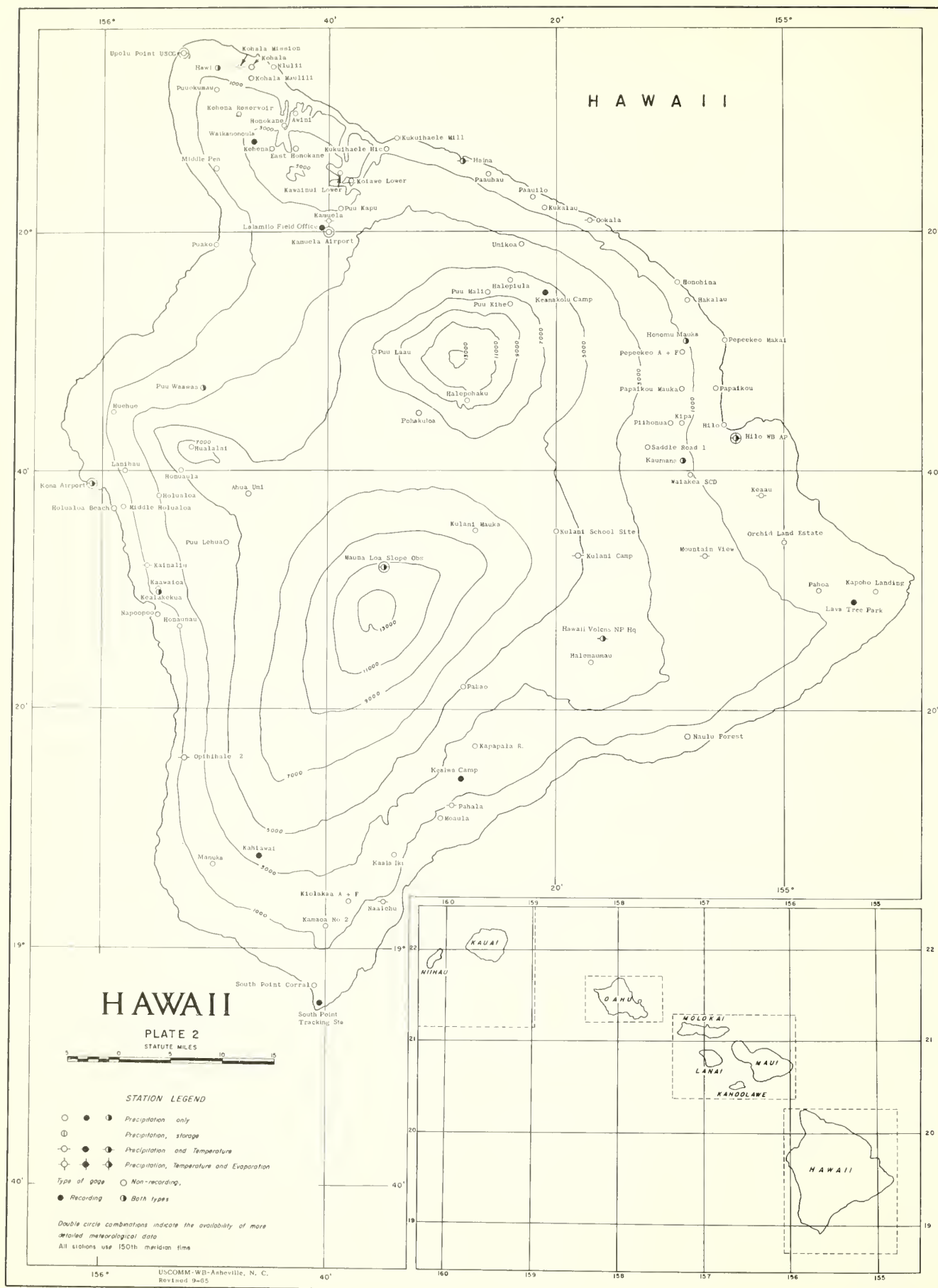
Stations appearing in the Index, but for which data are not listed in the tables, were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, MONTHLY CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address above.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.







CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE

ALEXANDER R. TROWBRIDGE, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

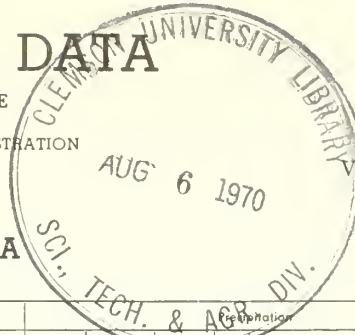
ENVIRONMENTAL DATA SERVICE

HAWAII

JUNE 1967

Volume 63 No. 6

CLIMATOLOGICAL DATA



Station		Temperature								Precipitation				Snow, Sleet				No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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CLIMATOLOGICAL DATA

HAWAII
JUNE 1967

CONTINUED

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
									Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More	
									90° or Above	32° or Below	32° or Below	Below											
ISLAND OF HAWAII																							
HAIR 214	84.8	65.7	75.3	2.3	88	1	62	17+		0	0	0		1.72	- .20	.34	26	.0	0		8	0	0
HAWAII VOLCNS NP HO 54	70.7	54.6	62.7	.7	76	18	49	3		0	0	0		4.58	-.05	.47	28	.0	0		16	0	0
HILO WB AIRPORT	85.2	69.7	77.5	3.2	87	19+	67	11		0	0	0		6.26	-.53	1.14	28	.0	0		16	3	2
HUEHUE 92A																							
KAINALIU 73B	79.2	63.0	71.1		83	22	61	12+		0	0	0		8.32	.37	1.54	23	.0	0		15	8	1
KAMUELA AIRPORT	75.5M	59.3M	67.4M		78	23+	51	6		0	0	0		.64		.27	1	.0	0		2	0	0
KEAAU 92	84.0	66.1	75.1	1.4	87	1	63	12+		0	0	0		7.66	-.20	1.60	28	.0	0		17	4	2
KEALAKEUA 26.2	79.5	64.9	72.2		82	13	63	10+		0	0	0		5.88		1.28	25	.0	0		11	3	1
KEHENA RESERVOIR 176.1														2.76		1.25	29	.0	0		2	1	
KONA AIRPORT 68.3	83.7	70.9	77.3		86	1	68	1		0	0	0		1.80		.53	8	.0	0		5	1	0
KUKUIHAELE HIC 199														2.30	-.74	.52	1	.0	0		8	1	0
KULANI CAMP 79	64.5	48.6	56.6		72	18	39	11		0	0	0		2.50				.0	0				0
MAUNA KEA BEACH	88.2	71.1	79.7		95	21	53	26		8	0	0		2.78		1.77	2	.0	0		4	2	1
PAHALA 21	80.8	63.6	72.2	.0	85	25	60	17		0	0	0		5.25	3.92	1.02	13	.0	0		10	5	1
POHAKULOA 107														.62				.0	0				0
PUAKO 95A														.85		.33	1	.0	0		3	0	0
PUU WAAWAA 94.1														6.05	3.93	1.67	1	.0	0				3
UMIKOA 118														2.96	1.26	.96	30	.0	0				1
WAIKAE SCD 88.2														9.00		1.68	28	.0	0		19	6	2
ISLAND			71.6											4.00				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 95° ON THE 21ST AT MAUNA KEA BEACH, HAWAII
 LOWEST TEMPERATURE: 33° ON 9+ AT MAUNA LOA SLOPE OBS, HAWAII
 GREATEST TOTAL PRECIPITATION: 16.06 INCHES AT PIIHONUA 89, HAWAII
 LEAST TOTAL PRECIPITATION: .14 INCH AT HALEPOHAKU III, HAWAII
 GREATEST ONE-DAY PRECIPITATION: 5.60 INCHES ON THE 30TH AT HANA 354, MAUI

SPECIAL WEATHER SUMMARY

June was an unusual month in that many monthly and 24-hour precipitation records were broken on Oahu and Kauai.

Mainly responsible was a combined surface and upper-level low pressure system which ushered in a period of frequent heavy showers and south-westerly winds. This occurrence, quite unusual during this time of year, accounted for most of June's precipitation at many stations. Several stations on Maui and Oahu recorded 24-hour amounts in excess of their record monthly totals. In spite of these record amounts other areas recorded precipitation amounts far less than normal. Kauai, in particular, was drier than normal which resulted in a rather extensive brush fire in the usually wet Hanalei area. Precipitation was only 18 percent of normal at Princeville Ranch, Kauai. The saddle area of Maui received heavy precipitation, while along the northeast coast precipitation was rather light. Amounts on Oahu and Hawaii were variable and the weather was warmer than normal.

Kahului, Maui, whose 11-year mean for June is 0.14 inches, recorded 0.29 inches in 5 minutes, 0.56 inches in 10 minutes and 0.76 inches in 15 minutes during a heavy shower on the night of the 29th. Heavy showers moved northward over Maui and were primarily responsible for the unusually high June totals on that island. At Kipahulu, Maui, 3.37 inches fell in 24 hours, breaking the 51-year

record of 2.93 inches. The 2.66 inches at Waipai Ranch broke the record of 1.66 inches dating back to 1897.

Similarly, on Oahu during this storm, many new precipitation records were set; outstanding was the 2.07 inches in 24 hours at Moanalua which exceeded the 62-year record of 1.96 inches. Kahuku Plantation recorded 1/2 inch from 10:15 p.m. to 10:27 p.m. on the 29th. On the 3d, Camp 84, west-northwest of Waipahu, recorded 0.70 inches in 10 minutes and 1 inch in 20 minutes. The former figure has a recurrence interval of 2 years. Although the 2.43 inches for June at Honolulu International Airport was far above the 20-year mean of 0.20 inches, it was of a warm character. Twenty-four days had a trace of rainfall or less and an all-time high temperature for the month of 91° was set on the 17th and equalled on the 22d.

Moderate to heavy rains which fell in the Waianae, Wahiawa, and Kipapa areas on the 3d, caused some damage to leafy crops. Strong winds during the 24th and 25th caused some bruising to crops in exposed areas on Oahu. Irrigation demands were heavy, and in the Waimea, Hawaii, area a restriction on the use of water for irrigation purposes was put into effect the week of the 17th. The east Maui regions from Haiku to Hana were extremely dry during the first 3 weeks and papaya orchards were given irrigation not normally needed.

Russell Dorr
Acting State Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
JUNE 1967

Station		Total	Day of Month																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF KAUAI																																	
ANAHOLA 1111	A	1.48		.71			.13			.03			.15	.17	T	T					.08		.03					.15		.03			
DRYES-000 STA 985	A	.95	.04	.21			.13		.01	.02			.06										.03						.30	.01	.03		
EAST LAWA 934	A	1.06		.01	.05		.02	.32	T	.02	.09		.16										T					.21	.07	.11		.01	T
ELEEE 927	A	.50	.03	.35			.01						T										.01					.10	T	T			
HAUOLA 1110	A	1.63		.42		.10	.17	.07	.05				.40	.07	.09					.09					.03			.07		.07			
HALENANAHU 1006	A	3.29		.48			1.85	.16	.05	.07	.06			.19								.09						.14		.14	.06		
HUKIPO 945	A	.36	.08	.15			.07	.06																									
ILILILUA INTAKE 1050	A	6.31		.06	1.90	.34	1.15	.20		.24	.12	.35	.15	.30	.08					.06		.05				.10	.20	.35	.10	.44	.10	.02	
INTAKE WAINIHA PC 1086	A	2.38	.27	.06		.10				.06			1.00								.03											.40	
KALIMIHAI RES 1131	A	2.53	.02	.18		.89	.03						.56												.01			.32	.03	.37	.12		
KANALOHULU 1075	A	1.47	.03	.50	.21	.61							.06									.04					.02		.25	.04	.10	.05	.04
KANEHA RESERVOIR 1092	A	3.61	.09	.12		.38	.12	.03	.15	.05			.72	.05	.11					.16		.09		.06					.18				
KANAA STABLES 1104	A	1.18		.40		.10	.08		.22				.10	.03								.07											
KEALIA 1112	A	1.29		.60		.03	.03	.04	.04	.02			.12	.25								.05		.02			.06		.03				
KEKAHA 944	A	.35	.12	.23																													
KILAUEA 1134	A	.97	.02	.15		.06	.03			.02			.22		.02									.06			.26		.13				
KILAUEA FIELD 17 1135	A	1.97	.20	.20		.14	.19			.02			.30		.03									.02			.36	.03	.42	.05	.01		
KILAUEA POINT 1133	A	.56	.02	.50		.05					.06	.06													.07	.13		.07	.13				
KOLO 1033	A	.76	.26	.50																													
KOLOA 936	A	2.57	.02	.55		.65	.45	.02	.02	.11			.21							.02		.03					.20	.08	.19	.02			
KOLOA MAUKA 994	A	3.72		.02		2.14	.65	.05	.02	.06			.23														.33		.11	.11			
KOLOKO RES 1137	A	2.18	.41	.21		.18	.09		.04	.03			.53														.28		.15	.05			
KUKUIULA 935	A	.68	T			.20	T		.05				.11	T														.15	.05	.07		.05	
LIHUE VARIETY STA	A	3.35		.02	1.38	.81	.20	.03	.04	.08			.18	.01						.10							.10	.04	.24	.04	.02		
LIHUE 1020	A	3.37	.01	.37		1.83	.80	.02	.02				.05														.10	.01	.06	.07			
LIHUE WB AIRPORT	R	2.09	.33	.50	.07	.08	.86	.07	.01	T	.08	T															.05	T	.04	T			
MAKAHUEA POINT	A	.59	.04	.02		.22		.02	.01	.08			.03														.03	.02	.08	.03	.01		
MAKAWELLI 965	A	.19	.17																							.01							
MANA 1026	A	.69	.05	.60					.04																								
MOHIMI UPR CROSS 1083	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MOLOAA 1145	A	1.69		1.23		.08							.12	.02									.02				.07		.14	.01			
NIU RIGGE 1035	A	.48	.03	.45																													
N WAILUA OITCH 1051	A	8.54		.18		4.59	.29	.06	.27	.17			1.11														.98	.24	.59	.06			
PH WAINIHA 1115	A	2.49	.01	.72	.36			.03	.01		.18	.08	.05	.14													.05	.09	T	.72	.05		
PRINCEVILLE RANCH 1117	A	.90		.07									.06	.15									.09		.12	.18	.04		.19				
PUEHU RIGGE 1040	A	.40	.06	.34		.99	.65	.03	.05				.14	.01						.02							.12	.01	.15				
PUMI 1013	A	2.79		.56																													
RESERVOIR 6 1004	A	4.55		.78		2.48	.40	.05	.05	.04			.25														.30	.02	.11	.03			
WAILUA 930	A	1.36	.03	.06			.03						.03	T														.14	.02	.03			
WAILUA MOUNTAIN 990	A	6.00																														6.00	
WAILUA LOWER 1054	A	5.21		.15	1.00	.95	1.47	.14	.01	.27	.11	.08	.04	.11						.04						.03	.04	.36	.02	.23	.10		
WAILUA UPPER 1052	A	3.89		.27	.06	.21	.41	.65	1.05	.15	.02	.35	.09	.05	.35					.02	.01		.01				.40	.03	.43	.07			
WAILUA 943	A	.27	.06	.21	.41	.65	1.05	.15	.02	.35	.09	.05	.35							.02	.01		.01				.40	.03	.43	.07			
WAILUA KAI 1065	A	2.05		.18		.41	1.22	.03					.05	.02									.07				.06		.03				
WAILUA 947	A	.29	.10	.10				.02																									
WEST LAWA 931	A	.91	.02	.05		.44			.02	.07			.02														.18	.04	.07	T			
ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	1.63		.20		.69	.12						.04															.05	.05	.04		.44	
BERETANIA PUMPING STA	A	.62	T		.32	.22	T			.01			.03										T					.02	.04			.18	
CAMP 84 C P C 807	A	4.71	.13	.11		3.65			.08	.11	.07		.02							.09													
CHURCH COLLEGE LAIE	A	4.20		.62						.01																							
COCONUT ISLAND 840.1	A	3.26		.16			.07			.01														.01				.17	.03	.14	2.08	.93	
EWA PLANTATION 741	A	.42		.08		.19						T	T																			.15	
HELEMANO INTAKE 881	A	3.93	.50																	2.70			.08				.17			.48			
HOKULOA 725.2	A	3.01				2.03																										.98	
HONOLULU OBSERV 702.2	A	1.19		.02	.10	.26																										.80	
HONOLULU WRAIP 703	R	2.43	T	T	.09	T	.03	T	T	.02		.01																			.28	2.00	
HONOLULU SUBSTA 704	A	1.68		.34	.02					.07	.04	T																.02	.07		.05	1.21	
H. S. P. A. EXP STA 707	A	.99		.62							.08	T																.02	.07			.15	
KAHANA 883	A	12.08				2.14							.97							2.08								.76			6.13		

DAILY PRECIPITATION

Continued

HAWAII
JUNE 1967

[illegible]

See reference notes following Station Index.

DAILY PRECIPITATION

HAWAII
JUNE 1967

Continued

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAMUELA AIRPORT	5.64	.27	.05	.02	T			T	T			T	T	.05	.60	.03	.03	.70	.01			.03			.50			T	T	.14	.07		
KAPADALA RANCH 36	5.34	.70					.03	.60		.30					.60	.03	.03	.70	.01		.30	.70			.50						.85		
KAPOHO LANDING 935	5.89		.62							1.27							1.79	.40	.71			.01	.22	.08	.04	.24	.33	.53	.36	3.64	1.01	2.21	
KAMUANA 88.1	10.23	.13			.26		.04	.06	.26	.05		.21		1.00	.05	.42	.96	.40	.71		.01	.22	.08	.04	.24	.33	.53	.36	3.64	1.01	2.21		
KAWAII LUWER 193	9.79		2.80							.50							.96	.40	.71		.01	.22	.08	.04	.24	.33	.53	.36	3.64	1.01	2.21		
KEAU 92	7.66	.07			.23		.02	.26	1.17	.33	.45			.02		.27	.21	.19	.31			.13	.04	.11	.58	.51	.32	.30	1.60	.47	.07		
KEALAKEUA 26.2	5.88	.04	.16	.38		.35	T	.09	.78		.07	.35	T		.01	.01	.81	.29			.04		.09	.40	.25	1.28	.05			.43	T		
KEHENA 181.2	3.60																																
KEHENA RESERVOIR 176.1	2.76	.10	.03										.10				.02				.04		.23					.42	.51	.04	1.25	.02	
KILOAKAA A & F 6	5.77																														5.77		
KIPIA 89.2	11.23	.27			.35	T		.14	.31	.11	.37	.03	T	1.98	.03	.46	.04	.30	.40			.23	.09	.03	.27	.79	.62	1.13	1.93	1.06	.29		
KOHALA 179A	2.76	.56						.02	.01		.07	.03	.13				.19			.15	.13	.09	.06				.42	.35	.50	.11	.04		
KOHALA MAULILI 176	2.15	.37						.07	.03		.09						.34			.10	.19	.02	.05				.28	.22	.26	.06	T		
KOHALA MISSION 175.1	2.75	.37	T					.02	.01	.05	.09	.01	T			.06	.45	.04	.10	T	T	.14	.08	.03	T	.11	.42	.30	.42	.05	T		
KOIAWE LOWER 196	6.90		2.65							.18							.79							1.18								2.10	
KONA AIRPORT 68.3	1.80	.35	.25	.04			.25	.04	.53		.04	T							.03			.05	T	.04	.05	.01			.01	.11			
KUKAIAU 222	2.89									.01	.05	.06	.07	T		.02	.07		.12			.03	.02	.08	.06	.52	.53	.74	.05				
KUKUIHALE HIC 149	2.30	.52						.05	.01			.10	.03			.02	.08		.18			.03	.02	.08	.06	.52	.53	.74	.05				
KUKUIHALE MILL 206	1.89	.64						.05	.02			.10	.03			.02	.08		.18			.03	.02	.08	.06	.52	.53	.74	.05				
KULANI CAMP 79	2.50	.25	.20	.10	.50	.06		.04	.12						.02	.03	.21			.09		.02	.08			.22			.06	.12	.10		
KULANI MAUKA 76	3.29	.07	.40	.05		.05		.07	.08				1.23				.09						.05						.10	.20	1.30		
KULANI SCHOOL SITE 78	4.48									.60							.08															3.18	
LANIHAU 68 C	8.61	1.42	.89	.83	.18	.12	.04	.06	.47	.10	.02	.07			1.97		.08												.11	.02	.14		
MAUKA 2	6.11	.02	.03			.60	.06	.09	.35	1.95			.75		.35					.20		.15	.05	.12			.54	.09					
MAUNA KEA BEACH	2.78	.17	1.77	.62					.02														.20										
MAUNA LOA SLOPE 085	1.84					T		.12					.71	.04			.03												.93	.01			
MIDDLE HOLUALOA 68.1	4.66	.79	.42			.29	.08	.20	.22	.05										.29			.23	.34	.40	.40	.02	.13	.58		1.08		
MIDDLE PEN 147.1	1.58								.50																							2.75	
MOULUA 18	2.75																																
MOUNTAIN VIEW 91	9.60		.05		.58	.08		.27	.63	.05	.51			2.10	.04	.19	.03	.30	.52			.10	.27	.03	.11	.64	.55	.36	.49	.94	.55	.21	
NAALEHU 14	3.40	T	.26			.20	.38	.01		.02				.35	T		.57	.19	.53	.01	.05	.05	.11	.02					.07	.51	.07		
NAPOOPOO 28	2.94					.45								.73	T		.57	.19	.53	.29									1.47				
NAULU FOREST 38.6	4.05	.15	.37	T	.47	.02	.04	.01	.15		T			.26		.02	.35	.29	.06			.01	T	.01	.06	.09	.04	.12	.52	.39	.62		
NIULI 179	2.13	.15						.03		.05			.10				.10			.20		.12	.14	.04			.43	.29	.31	.10	.07		
OOKALA 223	4.51	.16	T						.03				.16	T		.31			.08	T		.02			.08	.43	1.01	.70	1.26	.22	.05		
OPHIHALE 2 24.1	6.54	.06	.08	.16	.08	.58	T	.64	.21	.02	.02	T		.21	.10	T	.02	.08	.61	.02	T	.05	.20	1.41	.10	.38	.30	.01	.78	.42	T		
ORCHID LAND EST 91.5	8.06		1.83						1.77								.96															3.50	
PAAHUAI 217	1.52	.01						.02	.01		.09	.04				.16	.01	.10		.01						.04	.22	.11	.05	.14	.08	.13	
PAHULO 221	2.15									.10	.03	.08		1.02	T	.52	.26	.02				.03				.45	.46	.46	.43	.04			
PAHALA 21	5.25	.05	.80	.02	.39	.20	.99																.26	.02									
PAHOA 65	8.40	.04			.48		.02	.25	1.36	.15	.27			.25	.02	.54	.18	.28	.47			.03	.06	.03	.30	.56	.49	.32	.63	1.16	.48	.03	
PAHOA 37	6.10																															6.10	
PAPAIAU 144A	7.79				.32	T		.09	.47	.17	.50	T		.24	T	.32	.11	.08	.18			.05	.10	.11	.18	.20	1.12	.16	.22	2.49	.47	.12	
PAPAIAU MAUKA 140.1	11.26	.03			.56	T		.05	.58	.27	.36	.12	.23	.91		.32	.05	.08	.53	.04	.10	.03	.15	.30	.90	.55	.96	2.75	1.00	.39			
PEPEKEO MAKAI 144	6.72				.02		.06	.07	.64	.06	.40	.44		.16		.15	.37	.02	.08			.19	.01	.20	.61	.53	.23	.72	1.38	.20	.16		
PIIHOHUA 89	16.06																															16.06	
POHAKULOA 107	.62		.09							.53																							
PUAKO 95A	.85	.33	.23	.22	.02																												
PUU KIME 120	2.46																															2.46	
PUU LAU 102.1	.99																															.99	
PUU LEHUA 73	2.85																															2.85	
PUU MALI 113	1.77																															1.77	
PUUKUMAU 167	1.77	.50										.07				.02	.02			.07		.23						.36	.27	.05	.17	.01	
PUU OO 82	4.37	.20	.55	.10	.47	.04	.03	.07	.35	.09	.01		.02	.30	.01		.13	.16							.12	.27	.14	.12	.21	.61	.37		
PUU WAAHAA 94.1	6.05	1.67	1.10	.31	.03			.72							.02	.03				.14	.10											1.15	
SAOOLE ROAD 1 84	20.77		5.65							1.17							3.73								1.62							8.60	
SOUTH POINT CORRAL 3	1.26				.52							.04							.70														
UMIKOA 118	2.96	.29	.47						.10				.08	.37			.06	.01		.14						.16	.02		.17	.12	.96		
UPOLU POINT USCG 159.2	1.65	.73																															

DAILY TEMPERATURES

HAWAII
JUNE 1967

Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHJULUHULU 1075	MAX	69	68	71	72	72	72	75	74	74	73	71	73	71	69	73	73	74	75	74	73	73	75	75	76	74	72	69	71	70	74	72.5	
	MIN	54	54	54	54	56	56	53	58	54	52	55	53	48	46	48	46	46	52	47	43	51	48	56	53	56	58	53	56	49	48	51.9	
KILAUEA POINT 1133	MAX	82	85	84	84	83	83	83	83	83	83	83	83	83	84	85	85	86	83	85	85	86	85	86	86	83	84	85	89	85	86	84.3	
	MIN	71	70	72	74	72	74	73	73	73	72	69	71	71	74	73	74	73	75	74	72	73	75	74	71	74	75	72	72	71	72	72.6	
LIHUE WB AIRPORT	MAX	85	81	82	82	82	83	82	82	83	82	81	82	82	83	82	83	84	83	84	84	83	83	84	85	83	84	82	84	83	84	82.9	
	MIN	67	67	65	66	68	70	74	73	73	74	69	69	69	67	70	69	70	74	75	75	76	71	76	76	73	74	75	74	70	67	71.2	
MAKAHUEA POINT	MAX	87	86	84	82	89	84	85	85	84	84	85	84	84	87	84	89	88	87	87	88	86	89	86	87	85	85	85	85	85	86	85.9	
	MIN	70	73	70	72	71	73	73	74	72	71	70	70	72	70	72	72	73	74	71	73	74	73	73	76	71	75	74	73	71	71	72.2	
MANA 1026	MAX	88	86	85	88	86	86	87	87	85	89	88	89	85	85	87	87	86	88	87	86	87	87	87	90	85	87	86	88	89	90	87.0	
	MIN	67	67	69	69	71	69	68	68	64	66	66	68	66	69	68	69	70	70	68	69	67	68	69	65	67	65	66	67	69	69	67.8	
NIU RIDGE 1035	MAX	80	80	80	81	81	80	80	81	81	81	81	80	80	80	80	79	80	81	82	81	82	84	83	82	82	82	81	81	83	83	81.1	
	MIN	66	63	65	65	64	65	64	65	64	65	64	65	65	65	64	64	65	64	65	65	65	66	65	64	65	65	65	64	65	65	64.7	
WAIHAI LOWER 1054	MAX	80	80	80	82	82	80	82	82	80	81	82	82	83	83	84	85	84	84	84	83	83	83	85	84	83	83	80	79	82	82	83	82.2
	MIN	65	64	64	61	63	62	61	64	63	62	61	63	61	60	61	61	61	61	64	64	65	64	64	65	64	64	67	62	63	60	62.8	
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	84	84	85	84	85	88	88	87	86	87	87	86	88	90	86	86	88	90	88	89	90	89	89	88	89	87	87	88	86	84	87.1	
	MIN	66	67	68	67	69	68	69	67	68	68	66	64	64	66	65	66	67	68	67	66	69	68	69	70	69	71	71	68	70	71	67.7	
HONOLULU WBAP 703	MAX	84	84	84	86	85	88	88	88	86	86	87	87	86	88	86	86	91	90	88	89	89	91	89	88	88	88	88	89	85	82	87.1	
	MIN	70	72	71	70	73	73	75	74	73	73	70	68	68	71	70	71	72	73	73	73	73	72	74	75	73	75	74	74	73	71	72.2	
HONOLULU SUBSTA 704	MAX	82	82	82	82	83	83	84	83	80	81	81	84	83	84	83	86	86	84	83	85	83	84	84	83	81	82	81	81	81	79	82.7	
	MIN	69	70	70	69	73	73	75	74	73	73	72	70	71	72	72	72	73	75	73	73	73	73	75	75	73	75	72	74	73	72	72.6	
KAHUKU 912	MAX	83	83			84	84	83	83	83			83	83	85	84	85			85	85	85	84	85			85	84	83	80	83.8		
	MIN	64	68			66	70	73	73	72			66	65	68	73	67			70	73	73	72	74			70	69	69	66	69.5		
KANEOTE MAUKA 781	MAX	84	80	82	84	85	85	84	83	83	81	82	82	84	85	83	85	84	81	85	83	85	84	85	84	85	81	83	80	83	78	83.1	
	MIN	68	69	69	69	71	72	73	73	72	69	71	69	68	69	69	70	70	73	71	71	72	70	73	73	72	71	69	72	70	69	70.6	
MAKAPUU POINT 724	MAX	81	83	82	82	87	85	80	80	80	78	80	82	83	88	84	85	84	85	82	80	83	83	83	81	81	78	80	78	81	80	82.0	
	MIN	75	70	75	74	73	75	73	72	74	71	74	72	74	72	74	73	76	76	73	72	75	73	75	75	71	75	72	75	70	71	73.3	
OPAEULA 870	MAX	81	81	82	82	83	84	82	82	82	78	80	82	85	84	84	86	86	84	85	83	84	86	85	83	84	86	85	83	77	81	77	82.3
	MIN	66	65	65	64	67	65	66	67	67	63	64	62	61	62	64	66	64	64	63	63	64	65	64	67	65	64	67	67	67	67	64.9	
PRI WAIHAWA 820.2	MAX	82	83	85	82	84	83	85	85	84	83	78	84	85	86	87	85	86	87	87	86	86	88	88	86	85	86	84	83	86	83	84.7	
	MIN	64	65	65	65	64	66	68	64	65	66	64	64	60	62	61	63	64	64	63	63	64	66	64	68	67	67	68	66	69	68	64.9	
WAIALUA 847	MAX	85	85	85	86	88	89	89	87	85	82	83	83	85	88	88	87	88	92	88	88	88	88	89	87	85	84	86	84	86	84	86.4	
	MIN	66	66	66	67	66	67	66	64	65	65	63	64	61	63	60	65	66	64	65	64	64	67	66	66	66	66	69	64	69	68	65.3	
WAIKIKI 717.2	MAX	86	88	86	86	88	90	90	89	88	87	87	80	87	87	91	89	91	92	91	89	91	90	90	90	88	87	88	87	89	85	88.2	
	MIN	67	71	68	68	71	72	74	72	70	69	69	65	65	68	67	67	71	73	72	71	70	70	72	74	73	74	72	74	70	72	70.4	
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX																																
	MIN																																
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	75	76			77	81	79	78	78	77	79	78	81	80	79	80	80	81	78	79	78	80	82	80	78	80	78	78	76	78	78.7	
	MIN	63	61			66	62	65	66	64	65	65	63	62	65	64	65	65	66	66	64	64	67	64	67	66	67	67	67	67	66	65.0	
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA R5 338	MAX	61	63	62	65	66	63	66	65	62	63	67	64	61	65	65	64	67	67	74	73	72	70	68	66	61	69	67	64	64	61	65.5	
	MIN	44	44	46	40	51	51	52	46	47	46	42	43	42	42	45	43	47	49	53	52	53	54	42	44	40	47	48	46	48	49	46.5	
HALEAKALA SUMMIT 338.4	MAX	57	57			58	59	58	58	59			59	60	59	59	60			61	62	59	58	59		59	58	59	59	59	59	58.9	
	MIN	42	43			45	45	44	46	45			50	49	50	52	54			54	54	42	50	44		51	42	46	42	45	47.0		
HANA AIRPORT	MAX	86	87	86	85	87	87	87	87	85	85	85	85	85	87	87	86	86	88	86	87	87	86	88	85	87	84	83	85	83	82	85.8	
	MIN	70	68	66	70	70	69	69	70	68	70	66	70	73	69	74	72	72	72	70	69	69	71	69	69	71	69	69	73	72	69	70.2	
KAHULUI WB AP	MAX	84	87	86	88	86	86	87	84	85	85	84	88	89	88	89	89	89	87	88	87	90	88	86	86	85	86	87	84	85	86.7		
	MIN	66	66	66	64	68	65	70	73	72	71	62	63	65	65	65	67	68	71	65	67	70	67	65	72	66	71	72	72				

See Reference Notes Following Station Index

DAILY TEMPERATURES

HAWAII
JUNE 1967

Continued

Station	Day Of Month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF HAWAII																																	
HAINA 214	MAX	88	84	83	84	85	85	86	85	84	84	83	84	87	86	84	84	84	84	84	87	87	85	86	86	83	83	83	85	84	86	84.8	
	MIN	67	62	63	65	65	66	66	65	64	65	64	64	66	66	66	65	62	64	69	69	67	66	68	68	67	66	68	66	65	66	65.7	
HAWAII VOLCNS NP HQ 54	MAX	71	69	71	74	71	72	69	68	70	70	71	71	72	71	73	75	71	76	74	73	73	73	71	71	64	65	68	67	70	67	70.7	
	MIN	56	53	49	55	52	53	55	55	53	55	50	52	55	54	57	57	55	56	54	54	55	57	56	55	55	55	56	57	54	59	54.6	
HILO WB AIRPORT	MAX	87	87	86	87	86	85	86	85	84	82	83	86	86	85	86	85	86	86	87	86	86	86	85	80	85	84	85	84	84	86	85.2	
	MIN	72	69	68	69	68	68	71	71	68	69	67	68	69	68	69	71	69	70	71	70	71	70	71	70	69	70	71	71	72	72	69.7	
KAINALIJ 738	MAX	80	80	77	78	77	75	80	77	79	78	80	74	80	81	82	82	80	80	80	81	81	83	79	80	78	77	79	78	79	80	79.2	
	MIN	64	62	62	63	61	62	62	62	61	61	62	61	64	63	62	64	65	63	65	62	64	64	63	64	63	65	63	65	63	64	63.0	
KAMUELA 192.2	MAX	79	76	78	79	80	79	79	74	73	72	73	77	79	79	75	78	81	78	75	75	73	75	75	75	74	74	73	73	76	80	76.2	
	MIN	60	51	54	50	53	60	59	59	60	60	56	51	54	59	60	57	60	60	59	60	59	60	61	60	61	60	60	61	56	56	57.9	
KAMUELA AIRPORT	MAX	75	70	74	74	76	74	75	74	74	74	75	76	78	78	75	76	75	78	77	78	76	76	78	76	76	75	76	76	75	75.5		
	MIN	60	59	58	53	54	51	58	60	61	61	66	62	69	59	56	57	57	58	58	62	56	56	59	56	59	62	64	65	60	59	59.3	
KEAAU 92	MAX	87	86	84	84	84	83	84	82	83	83	83	83	85	86	84	84	85	85	85	85	83	85	85	84	84	84	83	82	82	83	84.0	
	MIN	67	65	64	64	64	64	64	66	63	63	63	63	67	66	67	70	67	67	67	68	67	68	67	68	66	66	66	67	68	69	66.1	
KEALAKEUA 26.2	MAX	81	76	76	79	77	76	81	78	79	79	80	80	82	78	79	81	80	81	80	81	81	81	80	81	78	78	81	81	80	81	79.5	
	MIN	65	65	64	64	63	64	65	64	64	63	64	64	65	65	64	65	67	65	66	65	66	67	65	66	65	67	64	67	65	65	64.9	
XOHALA MISSION 175.1	MAX	84	80	82	88	82	83	82	82	82	82	81	83	83	83	83	83	82	82	82	83	83	83	84	82	82	80	81	81	84	82.5		
	MIN	68	64	64	64	65	67	69	69	68	63	67	65	66	69	67	69	68	69	68	70	67	67	69	70	67	67	68	68	69	70	67.4	
XONA AIRPORT 68.3	MAX	86	85	83	83	83	83	82	83	84	83	83	83	82	82	84	83	85	84	85	85	84	85	85	84	84	83	83	83	85	84	83.7	
	MIN	68	69	69	69	70	69	69	70	72	72	72	73	72	72	70	72	70	71	73	71	71	70	71	72	70	71	72	72	72	72	70.9	
KULANI CAMP 79	MAX	57	66	63	64	68	68	58	59	63	65	67	63	67	67	67	56	65	62	70	70	67	68	62	65	60	61	63	64	62	67	64.5	
	MIN	53	47	52	51	46	45	52	49	47	46	39	46	51	44	54	51	43	43	46	45	48	50	52	54	49	52	51	53	51	49	48.6	
MAUNA XEA BEACH	MAX	86	83	85	84	87	86	86	85	87	87	87	87	87	87	91	87	88	88	91	90	95	88	89	94	91	93	93	89	88	88	88.2	
	MIN	71	67	70	69	71	71	73	71	70	72	69	69	72	74	73	73	72	74	74	71	74	71	73	71	71	53	71	75	74	73	71.1	
MAUNA LOA SLOPE OBS	MAX	52	54	53	56	55	56	54	51	51	55	54	53	51	55	54	56	60	59	61	60	63	60	60	58	64	60	54	51	52	56	55.9	
	MIN	35	34	36	37	40	40	37	33	33	36	34	35	36	37	36	36	38	42	38	42	39	39	40	41	43	40	37	37	38	39	37.6	
MOUNTAIN VIEW 91	MAX	80	79	81	79	80	80	80	79	77	76	78	80	78	79	81	81	78	82	81	81	80	82	83	80	70	76	78	77	75	77	78.9	
	MIN	60	60	58	61	59	58	61	62	60	61	56	60	63	59	63	64	61	63	63	62	62	63	64	63	60	62	63	64	64	66	61.5	
NAALEHU 14	MAX	81	82	82	81	81	81	80	80	82	82	82	82	82	81	82	82	82	82	82	82	82	82	82	82	82	82	81	82	82	81	81.7	
	MIN	67	67	67	64	64	68	68	68	67	67	65	65	68	68	71	70	70	68	68	68	68	69	69	69	68	68	70	69	69	69	67.9	
OOKALA 223	MAX	82	83	81	82	82	83	83	83	88	83	83	83	83	82	83	83	82	84	83	84	84	84	85	84	85	80	82	82	81	79	82	82.8
	MIN	68	67	66	71	68	68	69	69	68	68	67	67	67	69	69	70	69	68	69	70	70	69	71	70	70	67	67	68	69	69	68.6	
OPIHIHALE 2 24.1	MAX	77	74	78	77	75	80	76	78	80	79	81	81	80	77	79	78	82	78	77	77	80	76	80	75	78	77	82	78	82	85	78.6	
	MIN	65	62	63	61	62	64	63	60	59	61	59	60	63	63	64	65	67	66	65	64	66	64	64	64	64	61	63	62	63	61	62.9	
PAHALA 21	MAX	80	80	78	80	78	81	79	78	80	82	83	81	82	80	82	82	78	83	81	82	83	81	80	80	85	81	82	81	81	79	80.8	
	MIN	63	64	61	62	61	62	64	64	63	61	62	62	61	61	62	65	60	66	64	64	65	65	65	64	65	64	66	67	67	68	63.6	
UPOLU POINT USCG 159.2	MAX	86	86	86	84	85	85	84	84	85	84	84	85	86	85	83	86	85	84	86	87	86	85	85	85	84	84	82	84	84	88	84.9	
	MIN	70	70	71	66	67	70	70	69	70	72	70	72	72	66	71	72	66	68	72	67	68	70	70	69	71	67	70	69	65	69	69.3	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	8	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
LIHUE WB AIRPORT	EVAP	.36	.20	.21	.17	.20	.11	.30	.34	.36	.37	.37	.27	.37	.30	.32	.40	.32	.39	.41	.45	.39	.40	.44	.39	.36	.32	.38	.37	.30	.38	9.95	
	WIND	72	61	52	50	49	54	83	112	135	146	139	98	78	73	62	61	60	89	102	95	92	94	87	128	138	152	175	140	103	66	2846	
	MAX	93	90	95	92	94	87	94	93	93	92	90	91	93	95	95	96	96	95	95	94	93	95	96	94	94	85	90	87	92	95	92.8	
	MIN	68	68	67	67	69	70	70	69	68	67	66	68	68	66	68	67	69	69	70	69	68	69	69	70	70	69	68	69	68	69	66	68.3
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.30	.24	.20	.20	.18	.17	.27	.31	.32	.26	.18	.17	.26	.28	.29	.28	.27	.30	.29	.31	.30	.32	.31	.36	.38	.37	.35	.34	.32	.22	8.35	
	WIND	20	20	14	19	14	13	27	36	38	43	30	17	24	20	28	22	22	28	32	30	31	32	38	48	57	67	58	56	39	22	945	
	MAX	100	102	97	97	97	97	97	95	97	89	90	89	99	100	96	100	101	99	98	98	86	99	96	98	95	94	94	96	96	95	96.2	
	MIN	73	73	73	73	73	72	73	71	72	69	69	69	70	72	70	72	74	72	71	70	70	72	72	71	71	70	72	70	73	75	71.6	
ISLAND OF HAWAII																																	
HILO WB AIRPORT	EVAP	.28	.19	.17	.30	.29	.23	.23	.27	.21	.32	.23	.20	.16	.29	.23	.14	.27	.19	.28	.22	.21	.32	.23	.12	.20	.21	.18	.12	.09	.28	6.66	
	WIND	86	73	90	79	74	66	77	76	61	72	66	65	73	75	87	64	87	79	71	75	67	74	73	48	70	72	89	66	60	87	2204	
	MAX	89	90	85	92	90	92	91	93	92	92	91	91	89	92	93	87	92	90	88	90	91	90	91	78	86	90	85	82	82	88	89.1	
	MIN	69	66	65	67	65	67	69	68	66	68	64	68	69	65	70	71	67	69	68	68	70	69	68	69	67	69	69	69	70	70	68.0	

HAWAII
DELAYED DATA
JUNE 1967

DAILY PRECIPITATION

See Reference Notes Following Station Index

DAILY TEMPERATURES

HAWAII
DELAIED DATA
JUNE 1967

Station			Day Of Month																															Average	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
• • •																																			
AUGUST 1966																																			
WAILUKU 392			MAX	84	85	85	81	84	85	84	85	82	83	84	83	85	84	85	79		85	85	84	85	83	85	84	84	84	85	89	86	86	88	84.4
• • •			MIN	66	72	72	70	70	71	72	70	70	69	72	70	70	70	70	71		70	72	70	71	71	72	71	71	71	70	73	70	69	71	70.6
JANUARY 1967																																			
MAUNA KEA BEACH			MAX	83	90	87	89	86	85	84	80	84	86	83	79	79	79	80	81	81	84	87	88	81	82	81	85	82	83	83	82	83	85	84	83.4
• • •			MIN	69	69	69	72	64	63	62	62	65	64	68	59	60	61	65	63	68	66	52	66	65	64	67	67	63	65	66	65	64	67	67	64.7
FEBRUARY 1967																																			
MAUNA KEA BEACH			MAX	81	82	82	82	87	88	83	84	89	85	81	85	83	82	79	82	82	84	83	82	88	84	82	83	81	82	82	88				83.4
• • •			MIN	70	68	65	65	65	65	67	66	63	69	68	67	68	68	65	67	67	64	63	65	60	63	63	68	65	65	64	64				65.6
MARCH 1967																																			
MAUNA KEA BEACH			MAX	91	87	84	82	84	82	82	82	84	84	78	82	82	85	84	84	85	86	85	85	83	79	76	86	84	86	84	84	83	84	84	83.6
• • •			MIN	55	68	63	63	63	64	68	68	69	69	68	66	63	68	69	67	68	67	66	71	68	68	68	71	67	72	74	69	70	69	71	67.4
APRIL 1967																																			
MAUNA KEA BEACH			MAX	85	87	89	84	83	87	85	86	86	84	85	83	83	83	84	83	84	85	84	87	87	87	86	88	85	85	84	89	89			85.4
• • •			MIN	70	69	72	66	70	69	69	68	64	65	66	67	67	68	66	66	68	67	70	67	67	68	67	70	70	70	72	71	70	70		68.3
MAY 1967																																			
MAUNA KEA BEACH			MAX	86	85	86	89	85	87	85	86	84	86	87	88	85	86	86	86	86	85	85	85	87	91	91	90	87	85	87	87	88	87	88	86.6
• • •			MIN	72	71	69	70	65	69	69	69	71	73	72	72	69	73	71	74	71	75	73	71	73	73	73	70	70	73	74	74	71	70	71	71.3

CORRECTIONS

JUNE 1966	DAILY PRECIPITATION TABLE	ISLAND OF KAUAI	MOHIHI UPR CROSS 1083	TOTAL PRECIPITATION V5.94
JUNE 1966	EVAPORATION AND WIND TABLE	ISLAND OF HAWAII	HILO W8 AIRPORT	WIND MOVEMENT ON 1ST 81, TOTAL WIND MOVEMENT 2234; EVAPORATION ON 1ST .18, 20TH .25, TOTAL EVAPORATION 6.21; MAXIMUM WATER TEMPERATURE ON 1ST 82, AVERAGE MAXIMUM WATER TEMPERATURE 87.1, MINIMUM WATER TEMPERATURE ON 1ST 67
JUNE 1966	EVAPORATION AND WIND TABLE	ISLAND OF KAUAI	LIHUE W8 AIRPORT	MAXIMUM WATER TEMPERATURE ON 3D 91, AVERAGE MAXIMUM WATER TEMPERATURE 89.3; EVAPORATION ON 13TH .38, TOTAL EVAPORATION 10.78
DECEMBER 1966	DAILY PRECIPITATION TABLE	ISLAND OF MAUI	PAAKEA 350	TOTAL PRECIPITATION *, 31ST *

STATION INDEX

HAWAII
JUNE 1967

STATION				INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES	OBSERVER
ISLAND OF KAUAI												
ALEXANDER RESV. 983				0140	02	KOLOA	2	21 57	159 32	1610	7A	MC BRYDE SUGAR CO.
ANALOHIA 1111				0145	01	KAWAIIHAI	1	22 09	159 19	116	7A	LIHUE PLANTATION CO.
BRIDGESWOOD STA 985				0240	02	KOLOA	2	21 56	159 32	720	7A	MC BRYDE SUGAR CO. LTD.
EAST LAHAINA 1075				0456	02	KOLOA	2	21 56	159 30	3600	8A	KANEHUNO 690
ERU 3 RESERVOIR 1094-1				0465	02	KAWAIIHAI	2	22 06	159 22	350	7A	LIHUE PLANTATION
GLENN 927				0470	02	KOLOA	2	21 54	159 35	163	6A	MC BRYDE SUGAR CO. LTD.
HALUA 1110				0935	01	KAWAIIHAI	1	22 07	159 19	9	7A	LIHUE PLTN CO LTD
HAIKUNAHU 1008				1038	02	KOLOA	2	21 58	159 26	490	8A	GROVE FARM CO LTD
HAIKUNAHU TUNNEL 1053				1050	02	KOLOA	2	21 59	159 20	1000	10A	KILAUEA SUGAR CO LTD
HAIKUNAHU 945				2221	03	WAIKAE	3	21 59	159 41	210	8A	KILAUEA SUG PLTN CO
ILILILUA INTAKE 1050				2222	02	LIHUE	2	22 02	159 28	1070	7A	LIHUE PLTN CO LTD
INTAKE MAINHAI PK 1068A				2227	01	HANALEI	1	22 09	159 34	690	7A	MC BRYDE SUGAR CO LTD
KALAHUWA RES 1131				2974	01	HANALEI	1	22 11	159 26	400	7A	KILAUEA SUG PLTN CO
KANALOHU 1075				3098	03	KOLOA	3	22 08	159 40	3600	8A	KANEHUNO 690
KANEHA RESERVOIR 1092				3104	01	KAWAIIHAI	1	22 08	159 22	800	7A	LIHUE PLANTATION
KAPPA STABLES 1104				3159	01	KAWAIIHAI	1	22 05	159 20	175	7A	LIHUE PLTN CO LTD
KAWAIIHAI 1112				3182	01	KAWAIIHAI	1	22 05	159 19	9	7A	LIHUE PLTN CO LTD
KEKAHA 944				4272	03	WAIKAE	3	21 58	159 43	9	8A	KEKAHA SUGAR CO LTD
KILAUEA 1134				4561	01	HANALEI	1	22 13	159 25	317	6A	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135				4566	01	HANALEI	1	22 11	159 24	415	7A	KILAUEA SUG PLTN CO
KILAUEA POINT 1133				4568	01	HANALEI	1	22 14	159 24	180	8A	U S COAST GUARD
KITANO 1037				4650	01	WAIKAE	3	22 02	159 41	2150	8A	KEKAHA SUGAR CO.
KOLA 1033				4735	03	WAIKAE	3	22 04	159 46	36	7A	GROVE FARM CO LTD
KOLA 936				4742	02	KOLOA	2	21 58	159 28	240	7A	GROVE FARM CO LTD
KOLA MAUKA 994				4750	02	KOLOA	2	21 58	159 28	240	7A	GROVE FARM CO LTD
KOLOKO RES 1137				4756	01	KAWAIIHAI	1	22 11	159 23	730	7A	KILAUEA SUG PLTN CO
KOLOKO RES 1137				4756	01	KAWAIIHAI	1	22 11	159 23	730	7A	KILAUEA SUG PLTN CO
LIHUE VARIETY STA				5560	02	LIHUE	2	22 01	159 23	375	7A	MC BRYDE SUGAR CO LTD
LIHUE 1020				5575	02	LIHUE	2	21 59	159 22	207	7A	LIHUE PLTN CO LTD
LIHUE AIRPORT				5580	02	LIHUE	2	21 59	159 21	103	10A	LIHUE PLTN CO LTD
MAKAHUNA POINT				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MAKAHUNA 945				5785	02	KOLOA	2	21 52	159 27	52	8A	U S WEATHER BUREAU
MA												

STATION INDEX

HAWAII
JUNE 1967

CONTINUED

CONTINUED																														
STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES					OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES					OBSERVER			
								TEMP.	PRECIP.	EVAP.	SPECIAL	TEMP.										PRECIP.	EVAP.	SPECIAL						
ISLAND OF HAWAII																														
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	BA	8A				HUTCHINSON SUGAR CO	PUU LAU 102-1	A 8452	05	HAMAKUA	5	19 50	155 36	7440	MG				STATE DIV OF FISH-GAME				
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395	7A					KONA EXPERIMENT STA	PUU LEUA 73	A 8460	04	N KONA	4	19 34	155 49	4850	MG				GREENWELL RANCH				
NAULU FOREST 38-6	6731	02	PUNA	2	19 19	155 08	1400	VAR					HAWAII VOLCANOES NAT PR	PUU MAI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960	MG				KUKAIAU RANCH CO				
NIULII 179	A 4806	01	N KOHALA	1	20 14	155 45	75	6A					KOHALA SUGAR CO	PUUOKUMAU 167	8548	01	N KOHALA	1	20 12	155 50	1800	7A				KOHALA DITCH CO LTD				
OKALA 223	7131	02	N HILO	2	20 01	155 17	450	7A					LAUPAHOE SUGAR CO	PUU CO 82	8550	02	S HILO	2	19 44	155 23	6340	6A				W. H. SHIMMAN, LTD				
OPHIHALE 2 24-1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A				MITS C LEONARD	PUU WAHAA 94-1	8555	05	N KONA	5	19 47	155 51	2520	7A				GILLINGHAM RANCH INC				
ORCHIO LANU EST 91-5	A 7185	02	PUNA	2	19 34	155 00	445	VAR					BOARD OF WATER SUPPLY	SADOLE ROAD 1 8A	A 8590	02	S HILO	2	19 42	155 12	2340	WH				BOARD OF WTR SUPPLY				
PAKAUHA 217	7204	01	HAMAKUA	1	20 05	155 26	415	7A					PAUKAUA SUGAR CO	SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	400	W				HUTCHINSON SUGAR CO				
PAUWIL 221	7312	01	HAMAKUA	1	20 03	155 22	800	7A					HAMAKUA MILL CO	5 POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	305					FEDERAL ELECTRIC CORP				
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	BA	6A				HAWAIIAN AGR CO	UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420	7A				KUKAIAU RANCH CO				
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670	6A					PUNA SUGAR COMPANY	UPULU POINT USCG 159-2	8830	01	N KOHALA	1	20 15	155 53		BA	8A			U S COAST GUARD				
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000	MG					HAWAIIAN RANCH CO. INC.	VAIAEKA SCO 88-2	9025	02	S HILO	2	19 40	155 08	1050	7A				SHINICHI KANESHIRO				
PAPAIEOU 144A	7711	02	S HILO	2	19 47	155 06	200	7A					MAUNA KEA SUGAR CO.	WAIKANOULUA 178-6	9350	01	N KOHALA	1	20 08	155 47	3830					KAHUA RANCH				
PAPAIEOU MAUKA 140-1	7721	02	S HILO	2	19 47	155 08	1270	7A					MAUNA KEA SUGAR CO.																	
PEPEKEO MAKA 144	8000	02	S HILO	2	19 51	155 05	100	7A					PEPEKEO SUGAR CO																	
PIIHOA 89	A 8051	02	S HILO	2	19 44	155 10	1730	MG					STATE DIV OF FORESTRY																	
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511	VAR					STATE DIVISION OF PARKS																	
PUAKO 95A	8186	05	KOHALA	5	19 59	155 50	5	6A					WILLIAM PATNE																	
PUU KAU 192-1	A 8383	01	S KOHALA	1	20 02	155 39	2870	MG					STATE DIV OF FORESTRY																	
PUU KINE 120-1	A 8393	01	HAMAKUA	1	19 54	155 24	7750	MG					KUKAIAU RANCH CO																	

1 DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLA 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Sciences Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "BOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS. Unless otherwise indicated, dimensional units used in this bulletin are Temperature in "F.", precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table; and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute wind speed. This station is not equipped with an instrument to measure fastest mile data.
- Amount included in following measurement, time distribution unknown.
- A The letter "A" shows following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index"; indicates amount carried in the "Total" column for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. When gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Bournly precipitation values are processed for special purposes, and are published later in the "Bournly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Bournly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above and covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

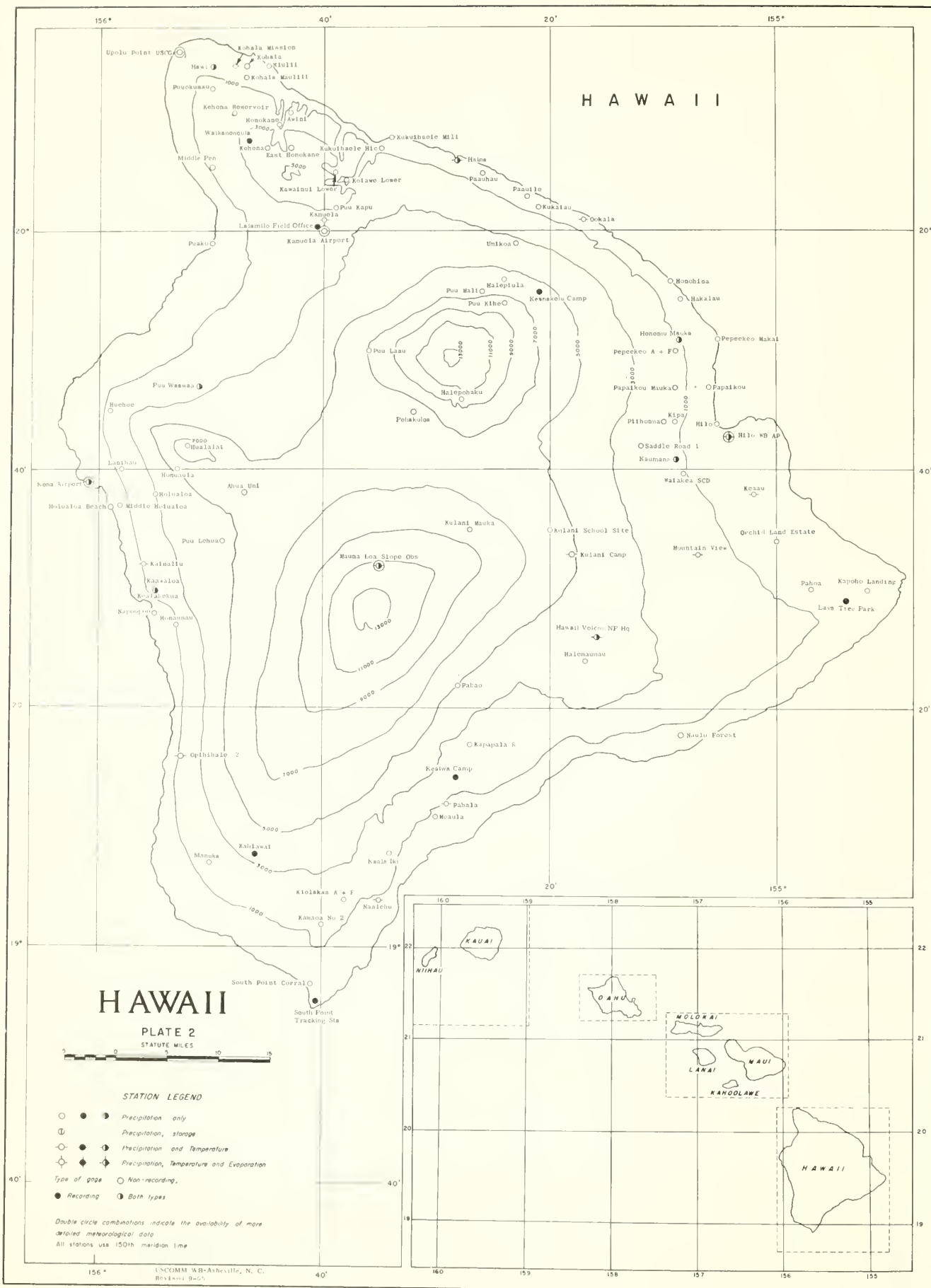
Stations appearing in the Index, but for which data are not listed in the tables, were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, MONTHLY CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE-9/28/67-660





CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE

ALEXANDER B. TROWBRIDGE, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

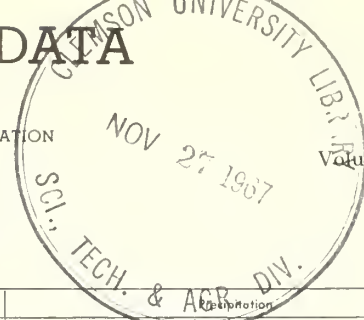
ENVIRONMENTAL DATA SERVICE

HAWAII

JULY 1967

Volume 63 No. 7

CLIMATOLOGICAL DATA



Station		Temperature										Precipitation												
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
																		Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More	
										1st or Above	2nd or Below	2nd or Below	2nd or Below											
* * * ISLAND OF KAUAI																								
ANAHOLA 1111		A	73.3	58.2	65.8		78 10	49 1		0 0 0	2.72	.33			.0	0							0	
KANALOHULUHULU 1075		A									3.36		.91	8	.0	0					10 1	0		
KAPAA STABLES 1104		A									2.47				.0	0								
KILAUEA FIELD 17 1135		A	85.0	72.6	78.8		87 31*	68 12		0 0 0	6.97	.26	.60	7	.0	0					8 1	0		
KILAUEA POINT 1133											2.54				.0	0								
KOLOA 936		A									4.72	-.34			.0	0							0	
LIHUE WB AIRPORT		R	84.2	73.8	79.0	1.4	86 28*	66 1		0 0 0	1.84	-.10	.50	8	.0	0					6 1	0		
MANA 1026			88.7	69.1	78.9	1.0	92 14*	66 29*		8 0 0	.52	-.04	.25	31	.0	0					2 0	0		
N WAILUA OITCH 1051											16.59				.0	0								
PH WAINIHA 1115											10.09	.01	1.74	22	.0	0					15 6	4		
PUEHU RIDGE 1040											2.09		.88	11	.0	0					5 2	0		
WAHIAWA 930		A									.95	-.74	.23	13	.0	0					0 0			
WAIAHI LOWER 1054			80.7	66.0	73.4		84 2*	59 1		0 0 0	10.79		1.56	8	.0	0					23 6	2		
WAIMEA 947											.11	-.36	.09	21	.0	0					0 0			
ISLAND					75.2						4.70				.0									
* * * ISLAND OF OAHU																								
HONOLULU OBSERV 702.2		R	87.7	75.2	81.5	2.7	90 31*	72 19*		2 0 0	.45		.21	8	.0	0					2 0	0		
HONOLULU WBAP 703							85 31*			0 0 0	1.21	.77	.68	1	.0	0					3 1	0		
KAHUKU 912		M	83.1	72.5	77.8	1.3	85 23*	69 1		0 0 0	5.15	3.26	1.51	21	.0	0					17 5	4		
KANEONE MAUKA 781											8.33	4.02	1.63	6	.0	0					19 8	3		
KOOLAU DAM 833											9.50	-.28	1.52	17	.0	0								
LUALUALEI 804											2.12		1.10	22	.0	0					4 2	1		
MAKAPUU POINT 724			81.3	73.9	77.6		89 31	72 24*		0 0 0	1.25	.41	.56	1	.0	0					3 1	0		
NUUANU RES 4 783											8.28	-.39	1.52	7	.0	0					18 7	1		
OPAEULA 870			81.3	68.2	74.8	2.6	87 13	62 21		0 0 0	5.05	1.75	1.52	22	.0	0								
PALOLO VALLEY 718											15.56	4.75	2.52	7	.0	0					22 10	5		
PRI WAHIAWA 820.2			84.9M	68.8M	76.9M		88 24*			0 0 0	3.41		1.16	21	.0	0								
PUNALUU 884											6.81		1.67	21	.0	0								
WAHIAWA DAM 863											3.30		.88	8	.0	0					1 0			
WAIAHOLE 837		A	85.6	68.2	76.9	.7	91 31	65 7		1 0 0	13.15	2.21			.0	0								
WAIALUA 847		A									1.50	.76	.60	20	.0	0					2 1	0		
WAIKIKI 717.2			88.3	73.7M	81.0M		92 23	71 6		7 0 0	.91		.45	3	.0	0					2 0	0		
WAIPIAHU 750		A									1.89	1.22			.0	0								
ISLAND					78.1						5.17				.0									
* * * ISLAND OF MOLOKAI																								
KUALAPUU 534		A									.84	-.04	.16	21	.0	0								
MAPULEHU 542											2.73	-.21	.40	8	.0	0					11 0	0		
MAUNALOA 511											2.76	1.50	1.53	22	.0	0					2 1			
MOLDKAI AP 524			83.3	72.1	77.7		90 23	70 18*		1 0 0	1.13		.80	1	.0	0					2 1	0		
ISLAND					77.7						1.87				.0									
* * * ISLAND OF LANAI																								
LANAI CITY 672			77.9	66.5	72.2	1.1	81 24*	64 19*		0 0 0	7.45	5.73	2.14	8	.0	0					7 3	3		
ISLAND					72.2						7.45				.0									
* * * ISLAND OF MAUI																								
HALEAKALA B E S 434		A	86.5	49.3	57.9		73 29*	45 30*		0 0 0	4.43	.30	1.08	8	.0	0					5 2	0		
HALEAKALA RS 338			84.7	73.7	79.2		87 8	68 19		0 0 0	2.28		.81	8	.0	0					18 2	2		
HANA AIRPORT											6.88		2.32	1	.0	0								
HONOKOHUA 493		A									3.73	1.35	.66	21	.0	0								
KAHULUI WB AP		R	86.4	71.1	78.8	.5	91 30*	67 9		3 0 0	1.12	.69	.42	7	.0	0					3 0	0		
KAILUA 446			80.0	67.1	73.6	.9	84 2	63 1		0 0 0	15.38	5.23	2.11	22	.0	0					22 11	7		
KEANAE 346		A									25.90	6.03			.0	0								
KIPAHULU 258											6.90	-.63	.99	22	.0	0					18 5	0		
KULA SANATORIUM 267			74.3	59.8	67.1	1.1	78 23	57 15*		0 0 0	4.53	2.47	1.40	8	.0	0					7 5	1		
LAHAINA 361			88.8	69.8	79.3		91 22	65 2		10 0 0	.65	.54	.48	1	.0	0					2 0	0		
PAIA 406											2.37	.48	.66	29	.0	0					6 1	0		
WAILUKU 392																								
ISLAND					72.7						6.74				.0									

CLIMATOLOGICAL DATA

HAWAII
JULY 1967

CONTINUEO

Station	Temperature										Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
									Max.		Min.						Total	Max. Depth on Ground	Date	10 or More	50 or More	1.00 or More
									90° or Above	80° or Below	70° or Below	60° or Below										
ISLAND OF HAWAII																						
HALEAKALA 214	84.3	67.9	76.1	2.0	89	21	64	9	0	0	0		4.21	.75	1.44	7	.0	0		6	2	1
HAWAII VOLCANO NP HQ 54	72.1	56.3	64.2	1.3	85	28	50	4	0	0	0		8.25	3.13	1.51	17	.0	0		16	5	3
HILO WB AIRPORT	84.5	71.0	77.8	2.9	87	9+	68	13+	0	0	0		14.03	4.21	2.12	7	.0	0		21	7	5
HUEHUE 92A													5.44	2.94			.0	0				
KAINALIU 73B	80.4	64.5	72.5		83	22+	63	19+	0	0	0		10.68	2.13	2.48	2	.0	0		15	7	4
KAMUELA AIRPORT	74.9	60.3	67.6		80	31+	55	30	0	0	0		1.10		.15	22+	.0	0		5	0	0
KEAAU 92	84.4	67.6	76.0	1.6	87	5+	65	14	0	0	0		19.15	9.01	3.28	22	.0	0		21	10	5
KEALAKEKUA 26.2	80.8	66.4	73.6		84	17+	65	19+	0	0	0		7.41		1.33	14	.0	0		16	5	1
KEHENA RESERVOIR 176.1													6.32				.0	0				
KONA AIRPORT 68.3	85.0	71.2	78.1		87	5	64	6	0	0	0		3.39		.93	2	.0	0		7	3	0
KUKUIHAELE HIC 199													6.46	.92	1.40	7	.0	0		10	6	1
KULANI CAMP 79	66.5M	49.9M	58.2M		73	23	46	5	0	0	0		12.68		4.35	17	.0	0		12	6	3
MAUNA KEA BEACH	90.0	72.5	81.3		95	4	62	13	17	0	0		.15		.08	3	.0	0		0	0	0
PAHALA 21	82.1	65.6	73.9	.7	87	5	62	6+	0	0	0		2.07	.55	.71	8	.0	0		8	1	0
POHAKULOA 107													1.45		.51	23	.0	0		3	1	0
PUAKO 95A													1.03		.90	22	.0	0		1	1	0
PUU WAAWAA 94.1													5.64	3.54	2.40	23	.0	0		8	3	1
UMIKOA 118													3.89	.90	.70	21	.0	0		12	2	0
WAIKOLA SCD 88.2													26.33		7.70	8	.0	0		23	12	5
ISLAND			72.7										7.35				.0					

EXTREMES

HIGHEST TEMPERATURE MAUNA KEA BEACH, HAWAII	95	DATE	04
LOWEST TEMPERATURE MAUNA LOA SLOPE OBS, HAWAII	35	DATE	22
GREATEST TOTAL PRECIPITATION PIIHONUA 89, HAWAII A	37.40		
LEAST TOTAL PRECIPITATION KAUNAKAKAI 536, MOLOKAI A	.00		
GREATEST 1 DAY PRECIPITATION PAPAIOU MAUKA 140.1, HAWAII	10.19	DATE	08

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

A weak tropical disturbance moving slowly westward about 200 miles north of Oahu brought widespread heavy showers and thunderstorms to the State on the 20th and 21st of the month. Small hail occurred at the Ranger Station on the upper slopes of Haleakala, and "heavy hail" was reported from the summit of Mauna Kea, Hawaii. Some upper canefields between Napili and Honolua on Maui's west coast were flooded.

Only one other noteworthy weather event occurred in the month -- the flash flooding which closed down the Belt Highway at Hookena, in

the south Kona area of Hawaii Island, during the afternoon of the 1st.

Rainfall in the State was generally above average, with the exception of Molokai and Kauai where many gages, especially in Kauai's leeward coastal areas, recorded well below their monthly means. In contrast, as the table below shows, this was the wettest July of record for Lanai City and for several long-period gages on Maui. Lanai was especially wet for the season, with every reporting gage showing from 3 to 50 times its July mean.

Stations Whose Greatest Previous July Rainfall Totals
were Exceeded in July 1967

(35 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest July Total	July 1967
<u>LANAI</u>			
Lanai City	37	5.59	7.45
<u>MAUI</u>			
Keahua	42	1.44	1.72
Puunene	58	1.45	1.58
Waiopai Ranch	47	1.71	2.12

Saul Price
Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
JULY 1967

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																		
ANAHOLA 1111	A	2.72	*	*	*	*	.22	.04	.10	*	*	.98	.02	.03	.40	.16	*	*	.17	.23	T	.14	.13	*	*	.05	.05	.15	.10	*	*	.45	*	
BRUNESWOOD STA 985	A	2.43	*	*	*	*	.28	.08	.16	*	*	.96	.02	.02	.40	.07	*	*	.46	.23	T	.14	.13	*	*	.20	.05	.18	.22	.01	*	*	.11	
EAST LAWA 934	A	.46	*	*	*	*	.22	.02	.11	*	*	.66	.02	.01	.38	.08	*	*	.74	.48	.01	*	*	*	*	.74	.10	.30	.25	.02	*	*	.32	
ELEELE 927	A	.60	*	*	*	*	.08	T	.08	*	*	.01			.12	*	*	*	.08	.03		T				.01	.05	.12		*	*	.02	*	
HAULA 1110	A	2.29	*	*	*	*	.16	.05	.05	*	*	.90			.07	.12	*	*	.09	.04		.07	.05	*	*	.08	.06	.12	.14	*	*	.29	*	
HALENANAH 1006	A	5.92	*	*	*	*	.76	.03	.08	*	*	1.40	.18		.65	.04	*	*	.65	.27		.04	.24	*	*	.50	.09	.15	.27	*	*	.57	*	
HUKIPO 945	A	.36										.18																				.05	*	
LIILILULA INTAKE 1050	A	15.81	.12	*	.20	.24	.03	.05	.28	1.64	1.10	2.30	1.05	.20	.18	.30	.70	.22	1.30	1.10	.04	.10	.26	.90	.24	.17	.31	.78	.56	.04	.20	1.00	.20	
INTAKE WAINIHA DC 1086	A	6.13	*	*	*	.39	*	*	.42	*	*	1.12	*	*	* 1.33	*	*	* 1.28	*	*	* 1.19	*	* 2.00	*	* 2.00	*	.06	.37	.17	.04	*	*	.84	
KALIMAWAI RES 1131	A	10.44	*	*	*	.23	.04	.06	*	*	*	2.13	.31	.09	.23	.19	*	*	1.83	.17	.04	.81	1.85	*	*	.98	.06	.37	.17	.04	*	*	.84	
KAYALOHULULU 1075	A	3.36	*	*	*	.03	.03	.02	.22	.91	.06	.31			.32	.34	.01	.10	.01	.01	.43	.14	.12	*	*	.39	.04	.23	.38	.05	*	.03	.10	
KANEHA RESERVOIR 1092	A	4.40	*	*	*	.31	.05	.16	*	*	*	1.20	.17	.13	.04	.13		.10	.01	.01	.43	.14	.12	*	*	.39	.04	.23	.38	.05	*	.03	.10	
KAPAA STABLES 1104	A	2.47	*	*	*	.15	.02	*	*	*	*	1.13	.10		.05	.10	*	.15	.03	.15	.15	*	*	*	.15	.02	.05	.10	*	*	.12	*		
KEALIA 1112	A	1.64	*	*	*	.16	.04	.03	*	*	*	.70	.03		.05	.11	*	.04	.02	.05	.15	.15	*	*	.04	.02	.08	.07	*	*	.10	*		
KEAHA 944	A	.23										.10																					*	
KILAUEA 1134	A	3.89	*	*	*	.05	.07	.04	*	*	*	.90	.20	.10	.07	.11	*	.48	.02	.01	.27	.25	*	*	.54	.04	.18	.21	.03	*	*	.32	*	
KILAUEA FIELD 17 1135	A	6.97	*	*	*	.19	.03	.08	*	*	*	1.35	.29	.02	.22	.03	*	1.10	.07	.05	.34	1.17	*	*	.43	.12	.21	.39	.02	*	*	.86	*	
KILAUEA POINT 1133	A	2.54	*	*	.04	.06	.03	.06	.60	.02	.06	.07	.07		.03	.09	.02	.22	.15	.17	.14	.30	.01	.46	.04	.10	.03			.04	.10	.08	*	
KOLO 1031	A	.39																															*	
KOLOA 936	A	4.72	*	*	*	.29	.05	.05	*	*	*	.60	.08	.02	.45	.10	*	.72	.31	.02					.81	.11	.39	.30	.02	*	*	.40	*	
KOLOA MAUKA 994	A	7.55	*	*	*	.56	.10	.07	*	*	*	1.51	.04	.18	.59	.18	*	.81	.61		.40	.24	*	*	.50	.15	.29	.21	*	*	.15	.1		
KOLOKO RES 1137	A	6.76	*	*	*	.17	.06	.08	*	*	*	1.41	.28	.02	.15	.31	*	.81	.07	.02	.34	1.60	*	*	.30	.08	.07	.20	*	*	.79	*		
KUKULUA 935	A	1.77	*	*	*	.08	.03	*	*	*	*			.20	.05	*	.10	.13	.02					.45	.03	.11	.15	.02	*	*	.12	*		
LIHUE VARIETY STA	A	5.89	*	*	*	.31	.46	.09	1.80	.10		.72	.09	.04	.17	.05	.05	.28	.16	.02	.03	.65	*	.10	.01	.09	.12	.17	.01	.05	.32	*		
LIHUE 1020	A	2.38	*	*	*	.15	.10	.05	*	*	*	.74	.03		.73	.01	*	.16	.02		.09				.08	.07	.08			.01	*	.06	*	
LIHUE #8 AIRPORT	R	1.84	T	.05	.02	.02	.07	.26	.50			.03	.04		.26	.05	.01	.01	.08	T	.03	.14	T		.10	.02	.10	.01	.10	.06	.01	.02	T	.03
MAKAHUNA POINT	A	1.19	.12		.04	.05		.06				.02	.10		.05	.01	.01	.01	.42	.02										.01	.02	.03	*	
MAKANEI 965	A	.32	.07			.05		.06							.01						.01	.09								.01	.02	.03	*	
MAKA 1024	A	.52																															.25	*
MOHIMI UPR CROSS 1083	A	1.64			.11	.21			.11	.03					.21	.11		.32			.11	.21	.11						.07	.07			*	
MOLOAA 1145	A	2.66	*	*	*	.28	.03	.10	*	*	*	.92	.88		.06		*	.15		.01	.17	.54	*	*	.03	.03	.05	*	*		*	.29	*	
NIU RIDGE 1035	A	1.07							.07	.06		.07	.06	.18																			.14	
N. WAILUA DITCH 1051	A	16.59	*	*	*	.93	.03	.28	*	*	*	4.63	.58	.18	.23	.54	*	1.89	1.13	.09	.22	.30	*	*	1.77	.43	.73	.54	.11	*	.198	*		
PH WAILUA 1115	A	10.09	*	.01	.04	.02	.08	.06	.98	.20		.08	T	.05	.28	.33	.31	1.70	.35	.03	1.08	.10	1.74	.11	.36	.05	.53	.31	.05	1.15	.09	*		
PRINCEVILLE RANCH 1117	A	8.08			.02	.07	.04	.16	1.14	.09		.17	.25	.06	.22	.36	.30	.80	.09	.04	.75	1.29	.72	.47	.09	.09	.13	.21	.02		.50	*	*	
PUEHU RIDGE 1040	A	2.09							.25	.88																							.20	*
PUNI 1013	A	3.09	*	*	*	.23	.10	.06	*	*	*	1.21	.01		.30		*	.24	.04		.05	.05	*	*	.17	.07	.13	.18	.02	*	*	.23	*	
RESCUE CAMP 1004	A	5.48	*	*	*	.03	.08	.05	*	*	*	.02	.02	.02	.05	.09	*	.50	.24			.39			.12	.12	.34	.28	*	*	.94	*		
WAILAWA 930	A	.95	*	*	*	.07	.03	.07	*	*	*			.23	.02	*	.04	.15							.12	T	.08	.08	.01	*	*	.15	*	
WAILAWA MOUNTAIN 990	A	15.50	*	*	*																												.50	*
WAIJANI LOWER 1054	A	10.79	.23	.10	.23	.43	.12	.23	1.56	.53	1.54	.22	.11	.21	.03	.63	.06	.71	.45	.05	.03	.47	.27	.36	.04	.30	.30	.37	.02	.02	.78	.39	*	
WAIJANI UPPER 1052	A	14.47	.03	.10	.27	.28	.30	.12	.19	1.58	.78	2.40	.57	.21	.15	.05	.78	.06	.71	1.09	.02	.01	.53	.55	.55	.43	.32	.40	.43	.08	.06	1.01	.41	*
WAILAWA 943	A	.12							.04			.04																					*	*
WAILUA KAI 1065	A	2.82	*	*	*	.32			.20	*	*	1.23	.17				*	.14			.40	.20	*	*	.03	.08	.05						*	*
WAIHEA 947	A	.11							.02			T																					*	*
WEST LAWA 931	A	1.70	*	*	*	.11	.02	.06	*	*	*	T			.31	.05	*	.13	.21	T					.36	.01	.12	.13	T	*	*	.07	*	
ISLAND OF OAHU																																		
AIEA FIELD 625 761	A	3.66	*	*	1.43	.07	.24	.03	*	*	*		.02	.05	.12	*	*	.40	.04		.05	.02	*	*	.58	T	.03	T	*	*	.08	*		
BREITANIA PUMPING STA	A	2.85	.81	.03	.02	.07	1.10	.01	.11	*	*			.03	.10	*	*	.40		T	T	.26	.16	*	*	T	.03	T	*	*	.09	T	*	
CAMP 8- 807	A	2.23			.24							.91			.09			.10			.05	.47	.25		.18	.03	.04	.09	T	T	.24	*	*	
CHURCH COLLEGE LAIE	A	4.05	.42	T	T	.01	T	T	.02	.66	.12	.91	.02	.05	.02	.13	.06	.17	.08	.37	T				.23	1.41	T	.01	T			.07	*	
COCONUT ISLAND 840.1	A	5.57	1.36	.03	.02	.12	.03		.13			.13		.05	.13	.06	.01	.33	.09	.07	1.30	.59		.09	.04	.16	.11	.03					.07	*
ENA PLANTATION 741	A	.89	.47						.35					.05			*	1.03	*		.53	*	*	*	.51	*	.42							

HAWAII
JULY 1967

[illegible]

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DAILY PRECIPITATION

HAWAII
JULY 1967

Continued

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAMUELA 192.2	2.88			.09	.02	.06	.02	.24	.14	.05			.12	.02	.01	.16	.52	.21	.16	.05	T	.16	.33	.06		.02		.24	.03	.12	.05		
KAMUELA AIRPORT	1.10	T		.02	.01	.03	T	.10	.05	T			.06	T		.04	.14	.15	.12	.02	T		.15	.01				.08	.04	.06	.02		
KAPAPALA RANCH 36	5.19		.62	.05	.04				.79		.20	.25										.05			1.55						.55		
KAPOHU LANDING 935	11.28	A						2.00							1.61							2.65											
KAMANA 88.1	26.73	.02		.01	.02	.37	.20		.58	7.60	.40	.02	.53	1.53	.43	.33	.06	2.05	2.06	.75		.01	2.05	2.47	2.06	.18	.14	.91	.38	.32	.72	.50	.03
KAWAII LOWER 193	17.92	A						3.35							2.90							5.87							5.80				
KEAAU 92	19.15				.03	.20	.17	.73	2.72	.03		.21	.59	.23	.32	1.33	.32	1.74	.80	.02		.02	2.98	3.28	2.05	.05	.17	.48	.54	.24	.55	.44	.24
KEALAKEUA 26.2	7.41		.18	.02	.34	.12	.01				.23	.14	.26	.32	1.33				.35	.98	.83	.63	.02	.83	.04	.39		.13	.26	T			
KEHENA 181.2	9.65										.60	.02	.25	.05	.01			2.05	.14		.10	.03	.02			.15	.04	.12	.56	.07		9.65	
KEHENA RESERVOIR 176.1	6.32					.15		1.35																								.61	
KIULAKAA A 7 F 0	5.52	A																														5.52	
KIPA 89.2	31.56	T	.03		.06	.68	.47	.70	9.22	.81	.06	.51	1.19	.61	.40	.10	3.28	2.16	.62	.03	.05	2.76	2.30	1.75	.20	.13	.47	.58	.42	1.10	.75	.12	
KOHALA 179.4	5.90	A					.01	1.29			.73	.15	.13	.01	.16			1.57	.08	.08	.02												
KOHALA MAULILI 176	8.59					.23		1.50			1.03	.05	.11	.04	.05		2.30	.08		.48	.62	.07				.24	.02	.04	.78	.04		.91	
KOHALA MISSION 175.1	7.55	T		.14	T			1.22	.53	.06	.04	.06	.17	.01	.10	.28	1.18	1.59	.10	.12	.09	.04	.11	.06	.08	.09	.03	.44	.06	.55	.40	T	
KOIAKE LOWER 196	9.25	A						2.15							1.35							3.70							2.05				
KONA AIRPORT 68.3	3.39		.93	T		.02	.10				.15	.23			.53					T	.03	.05	.84	T	.09	.02		.40	T				
KUKAIAU 222	7.30				.09	.16	.04	1.70	.89			.54	.06	.02	.03		1.44	.37	.16	.05	.07	T	T	.20	.01		.11	.22	1.14				
KUKUIHALE HIC 199	6.46				.08	.08	.06	1.40	.09		.03	.63	.03	.05	.05		.86	.28	.05	.08	.75							.16	.38	.70	.60		
KUKUIHALE MILL 206	4.27				.05	.03	.12	.28			.07	.07	.37	.01	.03			.87	.03	.18	.21	.02			.07		.17					.75	
KULANI CAMP 79	12.68	.46	.10			.09		.29	3.35			.31	.56	.16	.06		1.10	.35	.06				.70	.75	.05	.02	.25		.02				
KULANI MAUKA 76	4.32	.05						.05	1.40	.08		.20	.08	.11	.16		.05	1.82				.05	.05	.10		.05						.05	
KULANI SCHOOL SITE 78	18.70							.40			3.08				1.26							6.02							8.34				
LAKIHAU 68 C	10.67		.70		.11		.40				2.05	.86			.09	.45			.48	.72	3.05		1.26			.26	.10				.14		
MAUKA 2	4.86			.30		.80	.15							1.79	T			.40	.11	.19					.47	.15	.05					.45	
MAUNA KEA BEACH	1.15			.08											.05							.01											
MAUNA LOA SLOPE 085	3.66										.48				.02	.05		.19	.01			.15	.15		.84	.65	.06			.87	.14		
MIDDLE HOLUALOA 68.1	6.11	1.10							.05		1.06		1.16	.51	.33					.13	.30	.56			.51	.07	.08		.25				
MIDDLE PEN 147.1	6.09											.30										.39											
MOAULA 18	1.61																															1.61	
MOUNTAIN VIEW 91	23.13	.01		.02	.23	.57	.65	4.37	.04		.57	1.20		.18	.46	.58	3.20	1.50	.61	.07	.05	1.63	2.81	1.75	.05	.10	.53	.54	.33	.49	.39	.20	
NAALEHU 14	2.52				.09			.58	.38		.06	.13	T				.38	.12	.03		.03	.15			.23	T	.19				.15		
NAPOOHO 28	6.43			.99							.73																					.43	
NAUULU FOREST 38.6	8.54	.14	.08			.05	.03	.01	1.79	.01	.01	.49	.08	.01	.03	.01	.25	.44	T		.15	.05	2.33	1.54	.28			.22	.03	T		.66	
NIULII 179	6.15				.10			1.44			.57	.07	.10		.01	.21		1.35	.10		.17	.15	.05			.29	.05	.10	.50	.07		.82	
OKALA 223	10.24			.10	.07	.04	1.67	3.09	.05	.02	.03	.63	.11	.10	.06	1.58	.35	.21	.05	T	.01	.01	.28	T		.29	.25	1.07	.17				
OPINIHALE 2 24.1	8.65		.49	.05	.64	.01	T	.10	T	.12	.15	.21	.71	.06	.01	.65	.24	.63	.18	.01	1.22	.52		.05	.06	.05		.10	T	.05	2.33		
ORCHID LANE EST 91.5	13.80						1.01	.18		.73		.22	.06	.01		2.86			.71	.16	.03		5.48					.45					
PAUHAU 217	4.29				.07	.08	.03	1.38	.18												.02	T		.03					.04				
PAUULO 221	6.28			.07	.20	.03	1.40	.54			.52	.04	.01	.01	1.05	.37	.13	.07	.47	T			.14	.02				.01	.17	1.03			
PAHALA 21	2.07	.25		.03				.71	.16	.20	.01					.01	.12				.11	.14	.30	.03		.31	.53	.23	.36	.32	.26	.13	
PAHOA 65	12.43				.05	.35	.12	.57	1.61	.02		.13	.12	.24	.31	.26	1.43	.66	.06		.32	1.85	1.34	.83	.02						12.10		
PAKAO 37	12.10																																
PAPAIOU 144A	18.85		.01	.01	.11	.20	.24	.56	3.69	.44	.04	.35	1.56	.48	.40	.32	3.06	2.47	.45	.02	.02	2.60	3.05	2.48	.22	.06	.72	.30	.42	1.53	1.03	.18	
PAPAIOU MAUKA 140.1	34.25		.02		.25	.38	.16	.92	10.19	.52																							
PEPEKEO MAKAI 144	14.38				.36	.24		.90	2.08	.01	.15	.20	.21	.67	.26	.09	.51	.82		.02	.06	2.03	2.92	.38	.26	.06	.35	.50	.15	.66	.49		
PIHONUA 89	37.40	A									.32																					37.40	
POHAKULOA 107	1.45							.08	.06		.40					.37						.09	.02	.51									
PUAKO 95A	1.03	.03		.02															.02			.04	.90										
PUU KIME 120	3.14																															3.14	
PUU LAU 102.1	3.44																																
PUU LEHUA 73	3.90																															3.90	
PUU MALI 113	2.59																															2.59	
PUUKUMAU 167	7.30				.25			1.60			.83	.02	.16				2.60	.05	.13	.05	.04				.05	.02	.03	.67	.03		.73		
PUU OO 82	10.91	.13		.02	.03	.01	.14	1.81	.19	.02	.02	.36	.34	.08	.12		.78	.45	.10	.05	.03	.54	.49	.47	.06	.02	.18	.01	.02	.16	.10	.15	
PUU WAHAA 94.1	5.64	.90	.02					2.21	.14	.42	.41	.67				12.51			.09		.03	.30	.25	2.40									
SAOOLE ROAD 1 84	30.52	A			.24																												

DAILY TEMPERATURES

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Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
KANALOHJULUHU 1075	MAX MIN	73 49	75 54	73 56	75 59	73 58	72 59	66 56	74 66	75 55	78 63	75 57	73 59	61 58	72 57	73 60	77 60	77 64	74 59	72 59	72 63	72 53	71 51	72 55	73 62	74 59	74 58	74 61	74 59	76 57	77 59	76 58	73.3 58.2
KILAUEA POINT 1133	MAX MIN	86 75	85 73	86 71	85 71	86 71	86 71	87 70	85 74	84 75	85 74	85 72	84 68	86 71	84 74	84 75	82 73	81 71	86 73	86 72	81 73	83 74	87 72	85 72	85 73	86 74	86 73	84 72	86 75	86 71	86 74	87 73	85.0 72.6
LIHUE WB AIRPORT	MAX MIN	86 66	84 72	83 75	84 74	85 73	84 74	85 74	83 73	83 75	83 74	84 76	83 75	83 72	84 75	84 76	82 76	83 76	84 75	84 73	83 71	85 71	85 76	84 75	84 75	86 76	86 72	85 73	86 74	84 74	85 74	85 74	84.2 73.8
MAKAHUEA POINT	MAX MIN	89 71	90 69	87 73	89 71	85 75	86 73	86 74	87 74	87 72	87 74	86 72	86 75	86 73	86 70	86 73	83 75	86 75	85 73	86 73	86 72	87 74	89 73	87 73	85 74	86 73	85 73	86 75	86 76	85 74	88 76	88 74	86.5 73.3
MANA 1026	MAX MIN	88 68	89 72	89 71	89 67	92 66	90 68	86 72	91 70	87 72	88 70	88 71	89 70	90 67	92 67	86 71	87 70	88 69	90 70	90 71	88 68	89 67	88 70	88 67	88 70	88 72	88 71	88 68	89 66	89 66	86 70	86 69	88.7 69.1
NIU RIGGE 1035	MAX MIN	81 65	80 64	82 66	83 65	82 65	84 66	83 65	83 66	84 65	85 65	84 62	85 65	83 65	83 64	83 65	84 63	85 64	85 66	85 65	84 65	84 65	83 64	84 65	85 65	84 65	83 64	82 64	82 65	83 64	82 64	84 65	83.4 64.7
WAIAMI LOWER 1054	MAX MIN	84 59	84 65	83 67	81 67	81 67	80 67	81 65	81 69	80 69	80 66	80 65	80 67	80 66	80 67	82 68	78 66	76 68	78 66	80 63	82 63	81 63	83 66	81 68	82 66	82 66	81 67	79 68	80 69	81 65	80 65	83 65	80.7 66.0
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	85 70	87 70	88 70	87 70	87 71	87 70	86 70	89 72	89 71	89 72	88 71	85 73	87 69	89 72	88 72	88 72	87 75	86 73	88 69	88 70	88 71	91 72	89 72	88 70	88 72	89 73	89 72	89 73	87 70	88 72	89 71	87.9 71.3
HONOLULU WBAP 703	MAX MIN	85 74	87 72	87 75	85 73	85 76	87 74	85 75	89 76	89 75	88 76	87 74	86 74	86 74	89 74	88 76	88 77	87 76	88 76	88 74	89 75	90 76	88 76	88 76	88 76	89 76	89 77	89 77	88 77	88 76	89 75	90 76	87.7 75.2
HONOLULU SUBSTA 704	MAX MIN	81 74	84 74	84 75	82 72	82 74	83 73	82 74	84 73	85 76	84 75	84 76	82 74	83 73	84 74	84 77	84 76	83 76	83 74	83 73	84 73	86 74	83 74	84 75	84 75	85 77	85 77	85 77	83 77	84 76	86 74	84 76	83.6 74.7
KAHUKU 912	MAX MIN				85 65		83 70	83 72	83 71			84 72	84 74	83 73	83 74	83 71		84 72	83 73	83 73	84 70												85 72
KANEHE MAUKA 781	MAX MIN	82 69	85 71	85 72	84 70	82 72	84 72	83 74	81 72	83 73	83 72	83 74	83 73	83 72	84 72	84 72	83 71	83 74	81 73	83 72	83 70	85 70	83 75	85 72	84 74	82 73	83 72	83 74	84 75	84 74	84 75	79 72	83.1 72.5
MAKAPUU POINT 724	MAX MIN	77 72	83 77	81 72	80 75	79 72	80 74	81 72	79 76	82 73	82 73	80 75	80 73	85 72	79 73	80 75	80 76	81 73	80 75	80 72	81 75	85 72	82 76	85 74	83 72	81 74	82 75	82 73	80 76	80 75	81 73	89 77	81.3 73.9
OPAEULA 870	MAX MIN	78 68	81 67	84 68	84 71	82 67	79 68	80 69	86 72	81 67	82 69	81 68	87 69	81 68	82 67	82 69	80 70	80 70	85 70	87 67	85 66	85 62	81 67	80 68	85 67	80 68	80 69	79 70	81 68	81 68	80 68	85 68	81.3 68.2
PRI WAHIAWA 820.2	MAX MIN				86 66	85 69	85 69	82 68	84 68	83 68	85 68	86 67	86 69	85 68	85 68	86 71	85 72	86 70	82 67	85 68	85 68	84 68	88 69	88 67	88 67	85 69	85 70	88 68	86 71	83 68	86 71	86 68	84.9 68.8
WAIALUA 847	MAX MIN	84 68	85 68	86 67	86 70	87 68	84 69	85 65	84 66	87 66	86 67	85 66	85 67	86 66	86 67	86 68	85 69	85 72	84 70	86 68	84 68	85 70	84 69	88 68	84 68	86 68	86 68	88 68	86 69	85 69	85 67	91 69	85.6 68.2
WAIKIKI 717.2	MAX MIN	84 74	89 73	85 72	88 72	87 74	87 71	89 74	87 75	88 74	88 73	87 73	87 73	87 73	88 75		89 75	90 74	88 72	88 73	90 73	88 73	90 75	89 75	88 74	90 74	88 73	89 74	88 75	88 74	90 73	88.3 73.7	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	82 71	82 71	84 71	83 71	80 73	80 73	83 74	79 73	85 74	84 71	84 71	84 70	83 70	83 72	85 71	81 73	83 70	82 70	83 73	83 72	83 71	85 72	90 77	85 77	83 73	84 73	84 72	84 72	83 71	83 71	85 73	83.3 72.1
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	80 69	80 67	81 66	77 66	74 65	78 66	79 66	75 66	78 65	78 65	78 67	78 67	76 64	76 64	78 64	77 65	79 69	77 66	74 64	77 69	81 67	79 69	79 67	81 67	78 67	77 67	79 68	77 68	77 68	78 68	79 65	77.9 66.5
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	59 48	64 46	69 45	68 50	63 46	65 45	64 48	62 50	67 47	66 51	66 46	65 47	63 47	62 46	66 55	69 56	66 54	69 57	73 52	72 48	68 52	65 49	66 51	65 46	65 46	67 48	71 57	71 58	73 45	68 45	66 46	66.5 49.3
HALEAKALA SUMMIT 338.4	MAX MIN				59 49	54 42	55 46	59 48	56 44	58 43	59 51	59 51	59 41	58 50	59 41		60 44	61 47	61 51	61 43	62 41	55 44	55 45	63 44	56 44	61 54	59 54	59 52	59 53	60 52	60 43		58.7 46.2
HANA AIRPORT	MAX MIN	85 74	85 75	84 71	83 70	85 69	85 71	85 74	87 73	85 73	85 73	84 72	85 73	83 72	85 73	85 74	84 75	85 78	82 76	85 68	84 74	85 78	85 76	85 74	85 76	84 70	84 78	85 74	86 78	86 77	86 77	84.7 73.7	
KAHULUI WB AP	MAX MIN	86 71	87 68	86 68	84 71	85 71	86 72	87 73	87 70	85 67	85 73	86 73	84 71	86 71	87 72	86 68	89 71	87 72	85 70	91 72	88 71	88 73	87 74	86 72	87 72	86 73	86 74	86 73	86 74	91 73	90 68	86.4 71.1	
KAILUA 446	MAX MIN	83 63	84 65	81 69	82 66	78 66	79 69	79 67	76 69	78 68	81 69	81 68	81 68	81 68	82 66	81 67	80 66	81 65	78 68	80 64	78 68	80 69	79 67	79 66	78 67	79 67	79 67	80 68	80 68	80 68	80 68	80 68	80.0 67.1
KULA SANATORIUM 267	MAX MIN	75 61	72 62	75 59	74 60	73 60	73 60	75 61	74 62	73 58	73 59	75 61	71 60	74 57	73 55	75 57	77 58	75 60	73 61	73 62	76 63	74 62	73 61	76 62	74 61	72 60	76 60	75 60	74 59	76 59	76 59	76 58	74.3 59.8
LAHAINA 361	MAX MIN	90 70	86 65	89 70	89 68	90 68	90 68	90 67	87 71	87 69	87 69	88 69	88 69	90 70	88 70	89 70	87 70	90 76	89 71	89 70	89 73	89 71	91 71	89 70	90 								

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

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Station	Day Of Month																																Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF HAWAII																																		
HAIR 214	MAX	87	87	87	86	84	83	83	83	83	84	87	81	84	84	83	79	82	86	87	85	89	83	83	84	84	85	84	80	86	85	86	84.3	
	MIN	67	67	67	67	68	66	66	68	64	68	70	68	66	68	68	69	71	69	66	66	69	68	69	68	70	69	70	66	68	68	72	67.9	
HAWAII VOLCANO NP HQ 54	MAX	72	74	75	72	70	68	72	72	69	72	65	65	69	69	74	72	71	69	74	76	70	70	77	84	71	73	70	85	72	72	72	72.1	
	MIN	53	56	54	50	55	54	54	54	56	57	56	56	53	55	58	61	59	57	56	58	59	58	58	56	57	56	59	56	58	58	58	56.3	
HILO WB AIRPORT	MAX	87	87	85	85	85	85	84	87	83	85	85	85	82	86	84	84	84	84	85	86	82	84	84	85	83	85	81	85	85	84	84	84.5	
	MIN	68	71	69	71	71	70	72	72	71	71	70	71	68	69	72	73	72	74	69	71	71	70	71	71	71	69	72	72	73	72	73	71.0	
KAINALIHI 73R	MAX	82	80	80	80	80	81	81	81	83	80	79	78	80	77	81	82	83	81	79	81	80	83	82	78	79	80	82	80	79	80	80	80.4	
	MIN	63	65	63	64	63	63	64	66	65	63	65	66	65	63	63	65	66	67	63	65	65	65	65	66	64	64	65	66	65	64	64	64.5	
KAMUELA 192+2	MAX	80	81	82	80	75	74	73	75	75	75	75	73	75	72	74	70	73	73	75	76	80	75	81	73	74	74	75	75	72	77	82	75.6	
	MIN	57	56	58	58	60	60	63	60	62	61	61	60	60	61	62	64	64	60	58	56	59	61	62	60	61	60	60	60	61	60	60	60.2	
KAMUELA AIRPORT	MAX	78	78	80	75	75	74	74	75	75	76	72	72	75	74	72	72	74	72	76	74	76	74	78	76	74	73	75	72	73	77	80	74.9	
	MIN	57	60	69	58	60	58	59	58	58	66	59	59	59	59	60	62	64	60	58	59	60	61	62	65	59	59	59	60	59	55	67	60.3	
KEAAU 92	MAX	87	87	87	87	87	84	85	86	86	86	80	82	84	82	85	85	85	82	85	85	85	85	85	85	83	81	84	80	84	84	84	84.4	
	MIN	66	66	66	66	66	66	68	69	69	69	67	68	68	65	66	66	66	70	68	68	68	68	68	68	68	68	69	69	69	69	69	67.6	
KEALAKEUA 26+2	MAX	82	82	81	80	80	77	82	82	84	80	80	80	80	75	82	83	84	81	80	81	80	82	83	79	79	81	82	82	78	81	82	80.8	
	MIN	66	67	65	66	65	65	66	67	67	67	66	67	66	65	66	66	67	69	65	67	67	67	66	67	66	66	67	67	66	67	66	66.4	
KOHALA MISSION 175+1	MAX	84	84	86	82	82	82	82	82	81	82	83	81	81	81	82	76	78	82	82	82	85	80	83	81	81	81	82	78	82	83	82	81.7	
	MIN	70	69	70	68	69	70	69	71	70	70	70	70	69	68	69	70	71	71	67	68	70	71	70	70	71	72	70	69	70	68	68	69.6	
KONA AIRPORT 68+3	MAX	84	85	85	85	87	84	84	86	85	85	85	84	85	81	85	86	86	86	85	85	85	85	86	86	85	85	85	85	84	85	85	85.0	
	MIN	70	69	70	72	66	64	68	70	72	70	72	72	72	70	72	74	75	74	74	73	70	74	74	75	70	70	71	73	70	70	71	71.2	
KULANI CAMP 79	MAX	69	70	67	68	65	66	68	65	68	63	63	64	60	64	63	68	68	69	70	67	70	70	73	65	65	58	66	69	70	67	68	66.5	
	MIN	48	48	47	46	48	50	50	50	47	50	52	53	50	47	52	50	48	48	49	48	52	48	54	52	52	48	53	51	51	53	53	49.9	
MAUNA KEA BEACH	MAX	88	88	88	95	93	94	89	87	90	90	90	90	92	88	89	93	88	90	93	90	88	90	89	89	88	88	93	91	92	88	90	90.0	
	MIN	72	74	72	74	68	67	77	75	74	74	74	69	62	71	68	76	75	75	72	72	75	74	75	73	74	74	70	69	75	74	75	72.5	
MAUNA LOA SLOPE OBS	MAX	54	61	58	59	59	61	60	56	56	55	56	60	57	59	60	52	59	58	60	57	53	51	51	53	58	62	59	58	55	52	56	56.9	
	MIN	38	39	40	38	39	42	41	39	37	39	38	39	37	42	40	42	41	38	37	37	38	35	37	37	38	42	41	37	37	36	37	38.6	
MOUNTAIN VIEW 91	MAX	81	85	83	83	80	78	79	78	77	82	74	75	78	75	80	73	76	74	79	82	78	77	77	75	78	77	81	76	78	80	78	78.3	
	MIN	61	65	63	60	63	62	62	64	62	63	64	64	61	61	63	67	66	66	61	61	65	64	65	63	63	62	64	68	63	64	66	63.4	
NAALEHU 14	MAX	81	81	81	82	83	81	83	83	82	82	79	80	82	78	81	81	84	81	83	84	82	82	82	82	82	82	83	81	82	82	84	81.8	
	MIN	69	69	69	68	67	68	72	72	69	69	70	71	66	69	69	69	71	71	67	71	69	69	69	68	70	70	72	68	70	70	70	69.4	
OOKALA 223	MAX	83	84	85	84	83	83	82	84	82	83	83	81	82	80	81	79	82	84	84	85	83	81	84	81	83	83	79	80	82	82	82	82.4	
	MIN	69	69	72	68	68	69	69	70	70	70	69	69	67	66	69	69	70	70	69	69	69	70	68	71	70	71	70	70	70	70	73	69.5	
OPIHIHALE 2 24+1	MAX	79	78	77	81	76	81	83	85	86	85	84	84	81	84	83	84	82	80	84	82	81	84	80	79	80	82	83	82	86	84	85	81.9	
	MIN	64	62	63	64	62	63	64	66	67	66	64	64	63	64	62	63	69	66	65	66	64	63	65	66	64	64	65	63	66	65	65	64.4	
PAHALA 21	MAX	79	82	81	82	87	80	83	83	80	80	78	82	82	80	83	83	81	80	85	85	81	81	82	81	81	82	84	82	85	84	85	82.1	
	MIN	64	64	62	64	64	62	68	69	64	63	65	67	63	65	66	67	67	70	66	67	68	66	67	65	65	66	67	65	64	65	68	65.6	
UPOLU POINT USCG 159+2	MAX	86	85	88	85	83	84	84	84	85	85	84	84	83	84	84	85	84	86	84	84	88	83	86	84	84	84	83	84	85	86	84.6		
	MIN	71	71	73	70	71	71	72	73	73	72	74	73	70	71	72	73	73	73	71	73	74	73	71	73	73	72	73	76	71	72	74	72.3	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WB AIRPORT	EVAP	.28	.24	.27	.28	.42	.36	.28	.31	.23	.29	.42	.42	.37	.36	.40	.35	.42	.29	.32	.22	.24	.35	.36	.39	.42	.34	.34	.33	.43	.35	.33	10.41
	WIND	56	51	70	146	196	194	161	127	100	118	146	204	147	169	146	180	184	177	141	89	71	128	154	158	173	160	156	197	185	145	108	44.37
	MAX	92	95	90	84	90	89	86	93	88	93	93	92	90	91	92	90	91	92	88	92	92	91	92	92	92	91	90	89	91	91	94	91.1
	MIN	66	72	72	70	66	69	69	71	72	72	70	69	69	69	71	69	69	70	70	71	70	70	71	69	70	72	72	70	70	72	71	70.2
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702+2	EVAP	.18	.23	.25	.37	.26	.30	.32	.16	.30	.32	.30	.38	.31	.32	.29	.35	.23	.29	.27	.30	.25	.30	.39	.23	.31	.25	.36	.44	.40	.27	.27	9.20
	WIND	27	25	33	54	38	53	45	28	40	36	41	59	43	48	52	62	44	49	45	36	23	48	49	21	45	45	57	60	49	33	31	13.19
	MAX	97	100	98	97	93	92	95	92	97	99	95	97	93	95	97	95	95	91	93	98	98	93	98	96	93	94	95	97	94	94	97	95.4
	MIN	77	76	74	73	71	68	71	72	73	73	73	73	73	72	73	72	73	75	73	71	73	75	74	73	72	73	74	73	73	71	76	73	73.0
* * * ISLAND OF HAWAII																																	
HILO WB AIRPORT	EVAP	.27	.31	.22	.22	.25	.19	-	.07	.24	.15	.17	.33	.15	.17	.13	.06	.05	.31	.27	.06	-	.08	.15	.30	.03	.20	.05	.17	.32	.05	.27	5.60B
	WIND	85	96	68	75	90	77	49	61	68	45	69	80	44	81	65	66	51	66	63	72	28	61	47	50	29	57	37	64	72	53	62	19.31
	MAX	91	92	90	93	88	89	84	83	91	84	84	94	84	92	82	82	84	94	84	83	80	86	87	92	84	90	81	91	91	81	87	87.4
	MIN	67	69	66	69	71	68	70	71	70	70	69	71	68	67	69	71	71	72	69	71	69	69	70	69	71	67	72	70	72	71	71	69.7

STATION INDEX

HAWAII
JULY 1967

STATION										OBSERVATION TIME AND TABLES										STATION										OBSERVATION TIME AND TABLES									
INDEX NO.	DIVISION	DISTRICT	DRAINAGE I	LATITUDE	LONGITUDE	ELEVATION	TEMP	PRECIP	EVAP	SPECIAL	OBSERVER	INDEX NO.	DIVISION	DISTRICT	DRAINAGE I	LATITUDE	LONGITUDE	ELEVATION	TEMP	PRECIP	EVAP	SPECIAL	OBSERVER																
ISLAND OF KAUAI																																							
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610	7A	C		MC BRYDE SUGAR CO.	KANEPUU 670	A 3130	01	LAHAINA	1	20 53	157 00	1640	W1	K		DOLE COMPANY																
ANAOHOLA 1111	0145	03	KANAIHUA	1	22 09	159 19	116	7A	C		LIHUE PLANTATION CO.	KALUALAPA HARBOR 658	A 3461	01	LAHAINA	1	20 47	157 00	1640	W1	K		DOLE COMPANY																
BRUSHWOOD STA 985	0146	03	KOLOA	2	21 58	159 32	1610	7A	C		MC BRYDE SUGAR CO. LTD	KANAI CITY 672	A 5286	01	LAHAINA	1	20 48	157 00	1640	7A	C		DOLE COMPANY																
EAST LAWA 934	0456	02	KOLOA	2	21 55	159 30	1610	7A	C		MC BRYDE SUGAR CO. LTD	LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	1370	W1	K		DOLE COMPANY																
EVK 3 RESERVOIR 10941	0465	02	KANAIHUA	2	22 06	159 22	159	6A	C		LIHUE PLANTATION	LAHAINA 685	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
ELUELE 927	0470	02	KOLOA	2	21 58	159 32	1610	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 687	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
HALAULA 1100	0480	01	KANAIHUA	1	22 07	159 19	253	7A	C		LIHUE PLTN CO LTD	HALEAUA 688	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
HANAIHUA 1006	1038	01	KANAIHUA	1	22 07	159 19	253	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 689	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
HAWAII TUNNEL 1093	1170	01	KANAIHUA	1	22 05	159 28	1218	8A	C		LIHUE PLTN CO LTD	HALEAUA 690	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
HUPELO 945	2161	03	WAINAE	3	21 59	159 41	80	8A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 691	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
ILILIULA INTAKE 1050	2222	02	LIHUE	2	22 02	159 28	1070	7A	C		LIHUE PLTN CO LTD	HALEAUA 692	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
INTAKE WAINIPA CP 1068A	2227	01	HANALEI	1	22 09	159 34	690	W1	C		MC BRYDE SUGAR CO. LTD	HALEAUA 693	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
KALANALUOHU 1075	3109	03	WAINAE	3	22 08	159 22	3600	8A	C		LIHUE PLTN CO LTD	HALEAUA 694	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
KANAKA RESERVOIR 1092 A	3109	01	KANAIHUA	1	22 08	159 22	3600	8A	C		LIHUE PLTN CO LTD	HALEAUA 695	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
KAPPA TABLES 1114	3151	01	KANAIHUA	1	22 08	159 22	3600	8A	C		LIHUE PLTN CO LTD	HALEAUA 696	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
KEAIA 1112	3562	01	KANAIHUA	1	22 06	159 19	9	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 697	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
KELIA 1113	4272	03	WAINAE	3	21 58	159 43	9	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 698	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
KILAUHEA 1134	4391	01	HANALEI	1	22 13	159 25	317	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 699	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
KILAUHEA FIELD 17 1135 A	4761	01	HANALEI	1	22 11	159 24	415	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 700	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
KILAUHEA FIELD 1133	456	01	HANALEI	1	22 14	159 24	180	8A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 701	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
KITANO 1037A	4650	03	WAINAE	3	22 02	159 41	2150	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 702	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
KOLO 1033	4735	03	WAINAE	3	22 04	159 46	36	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 703	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
KOLOA 936	4742	03	WAINAE	3	22 05	159 28	240	6A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 704	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
KOLOA MAUKA 994	4750	03	WAINAE	3	22 05	159 28	640	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 705	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
KOLO REEF 1137	4758	03	WAINAE	3	22 11	159 23	737	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 706	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
KURUKU 935	4950	02	KOLOA	2	21 54	159 30	100	6A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 707	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
LIHUE VARIETY ST	5575	02	LIHUE	2	21 59	159 22	103	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 708	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
LIHUE 1020	5575	02	LIHUE	2	21 59	159 22	103	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 709	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
LIHUE WD AIRPORT	5575	02	LIHUE	2	21 59	159 22	103	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 710	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
MAKAHEA POINT	5785	02	KOLOA	2	21 52	159 27	52	8A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 711	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
MAKAHEA 965	5864	01	WAINAE	3	21 55	159 38	140	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 712	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
MAKAHEA 968	6080	01	WAINAE	3	21 55	159 38	140	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 713	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
M + M 1001	6097	02	KOLOA	2	21 55	159 28	300	W1	C		MC BRYDE SUGAR CO. LTD	HALEAUA 714	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
MONIHI UP CROSS 1083	6104	01	KANAIHUA	1	22 11	159 20	3500	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 715	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
MOUNA 1145	6529	01	KANAIHUA	1	22 11	159 20	3500	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 716	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
MOUNT WAILALEA 1047	6565	02	WAINAE	3	22 04	159 30	5075	6A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 717	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
NELELE 1035	6565	02	WAINAE	3	22 04	159 30	5075	6A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 718	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
N WAILUA DITCH 1055	6888	02	LIHUE	2	22 04	159 28	1100	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 719	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
N WAILUA RIVER 1055	8193	01	LIHUE	2	22 04	159 26	650	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 720	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
PH LAHAINA 1115	8855	01	HANALEI	1	22 12	159 34	101	6A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 721	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 722	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
PURUA RIDGE 1040	8205	01	WAINAE	3	22 05	159 24	1640	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 723	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
PUNI 1013	8218	02	LIHUE	2	21 58	159 29	129	8A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 724	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
REHOBOTH & 1004	8696	02	LIHUE	2	21 58	159 29	129	8A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 725	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
STABLE CAMP 1055-1	8696	02	LIHUE	2	21 58	159 29	129	8A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 726	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
WAILUA 930	8941	02	KOLOA	2	21 54	159 30	215	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 727	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
WAILUA MOUNTAIN 990	8941	02	KOLOA	2	21 54	159 30	215	7A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 728	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1	K		DOLE COMPANY																
WAILUA LOWER 1054	8951	02	LIHUE	2	22 01	159 27	565	6A	C		MC BRYDE SUGAR CO. LTD	HALEAUA 729	A 5701	01	LAHAINA	1	20 53	156 55	1430	W1																			

HAWAII
JULY 1967

CONTINUED

↑ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

OBSERVATION TIME. Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS for all stations are climatologicwl standard normals based on the period 1931-1960

STATION NAMES. Hawaii state key numbers are included following station names in the several tables

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on wn earlier date or dates

++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shows following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding measurement to the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

4. "Supplemental Data" table.

M One or more days of record missing, if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record.

B Amounts from recording page.

T Trace, an amount too small to measure

V Includes total for previous month

THE STATION INDEX THE SYMBOLS AND LET

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

A8 Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in the "Climatological Data" bulletin they are from separate non-recording gage, except those indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gwgg read once monthly, usually on the 1st day

OC Gage readings at periods varying from a few weeks to several months.

3 Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

88 Observation time is near sunset.

(4B) Observation time is variable.

W1. Gave feed weekly or irregularly only

EM Cage used weekly and last day of month

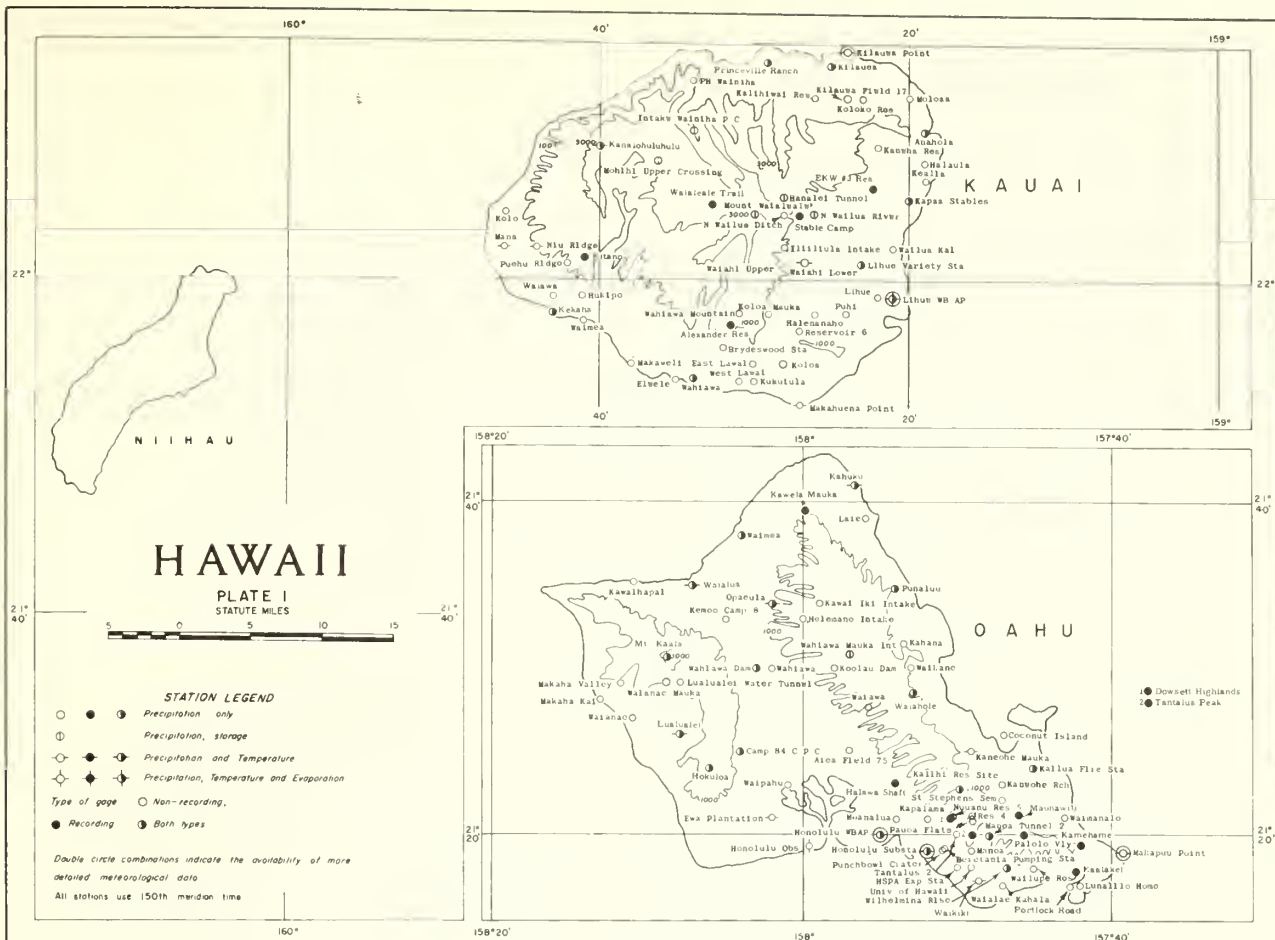
Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

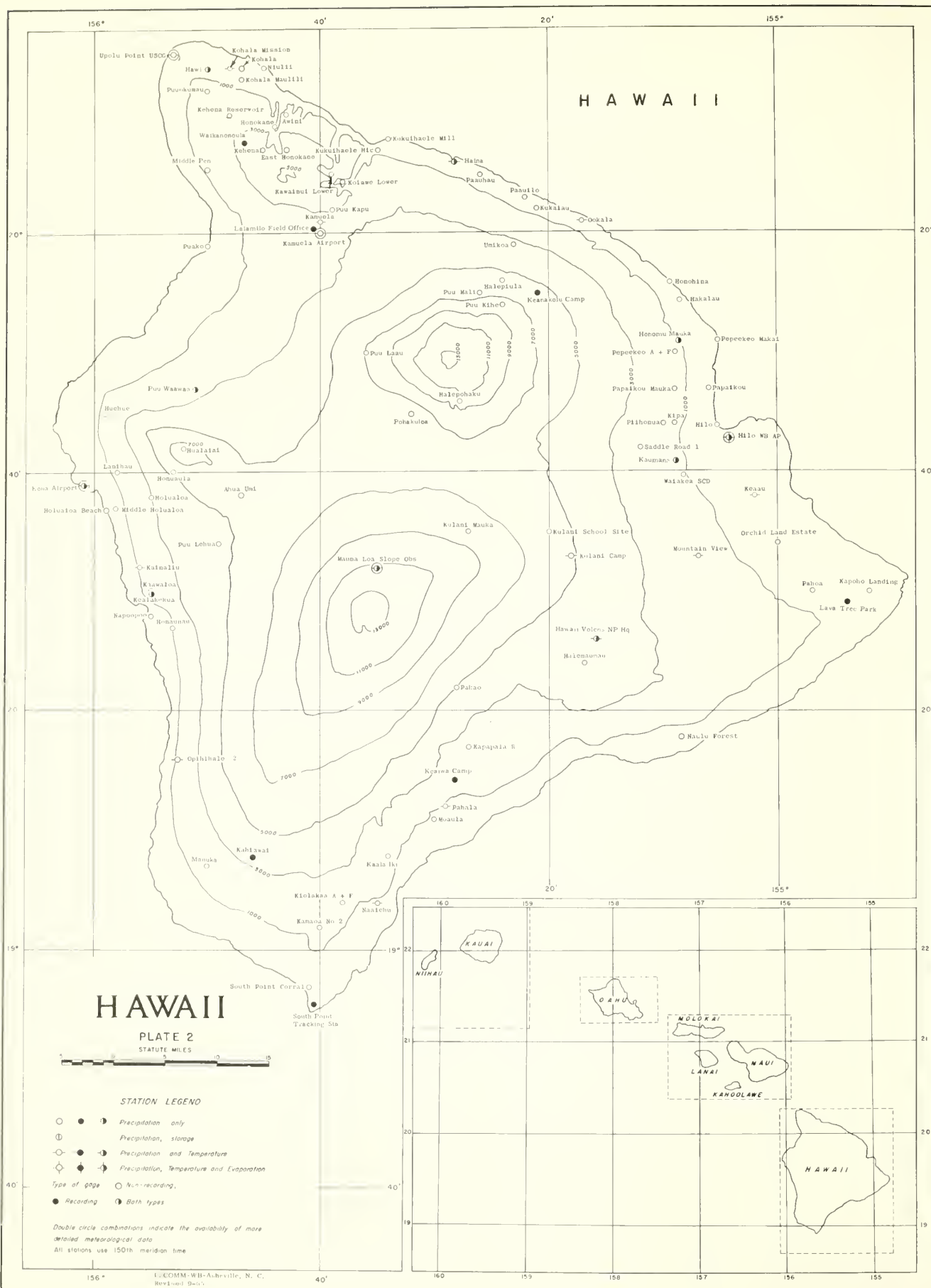
Stations appearing in the Index, but for which data are not listed in the tables, were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, MONTHLY CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.









CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE

ALEXANDER B. TROWBRIDGE, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

ENVIRONMENTAL DATA SERVICE

HAWAII

AUGUST 1967

Volume 63 No. 8

DEC 15 1967

CLIMATOLOGICAL DATA

Station	Temperature										Precipitation														
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days					Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days				
									Max.	Min.	60° or Above	32° or Below	Freezing or Below					10 or More	50 or More	1.00 or More					
ISLAND OF KAUAI																									
ANAHOLA 1111	A														2.31	- .58									
KANALOHULU 1075		75.1	58.3	66.7		80	20	47	29		0	0	0	0	.89		.27	9		.0	0		3	0	0
KAPAA STABLES 1104	A														3.08		.40	14		.0	0		0	0	
KILAUEA FIELD 17 1135	A														6.69	- 1.00	1.44	11		.0	0		1	0	
KILAUEA POINT 1133		85.9	74.0	80.0		89	31	70	10		0	0	0	0	2.91		.76	10		.0	0		9	1	0
KOLOA 936	A														7.13					.0	0				1
LIHUE WB AIRPORT	R	84.1	73.5	78.8	.4	86	27	68	29		0	0	0	0	1.98	.48	.70	9		.0	0		6	1	0
MANA 1026		88.9	69.5	79.2	.9	94	27	66	21		12	0	0	0	.93	.06	.87	9		.0	0		1	1	0
N WAILUA OITCH 1051															15.91		3.33	10		.0	0				
PH WAINIHA 1115															11.55	.90	1.78	13		.0	0		17	9	4
PUEHU RIDGE 1040															1.91		.96	9		.0	0		3	2	0
WAIHIAWA 930	A														2.95	.43	2.43	10		.0	0		2	1	1
WAIHIA LOWER 1054		81.7	67.1	74.4		84	31	63	30		0	0	0	0	10.32		1.98	10		.0	0		21	7	2
WAIHEA 947															2.65	1.61	2.27	10		.0	0		2	1	1
ISLAND				75.8											5.09					.0					
ISLAND OF OAHU																									
HONOLULU OBSERV 702.2	R	88.8	75.3	82.1	2.7	91	29	71	29		12	0	0	0	1.51		.60	10		.0	0		3	1	0
HONOLULU WBAP 703															2.53	1.64	1.18	9		.0	0		2	2	2
KAHUKU 912		84.0M	72.0M	78.0M	.3	86	30	67	29		0	0	0	0	4.40	1.74	1.24	9		.0	0		2	2	2
KANEOME MAUKA 781		83.6	71.8	77.7	.6	87	18	69	24		0	0	0	0	10.79	6.50	3.20	10		.0	0		13	6	3
KOOLAU OAM 833															14.47	5.94	3.94	9		.0	0		19	9	3
LUALUALEI 804															.17		.09	9		.0	0		0	0	0
MAKAPUU POINT 724		81.2	73.9	77.6		83	29	71	10		0	0	0	0	2.83	1.81	.88	10		.0	0		6	3	0
MUWANU RES 4 783															14.16	3.57	3.52	9		.0	0		16	8	5
OPAUELA 870		81.1	67.9	74.5	1.5	85	30	65	30		0	0	0	0	6.40	2.49	1.95	10		.0	0		14	2	2
PALOLO VALLEY 718															23.38	11.64	3.84	9		.0	0		20	11	7
PR1 WAIHIAWA 820.2		85.4	69.1	77.3		88	30	64	29		0	0	0	0	5.03		2.20	10		.0	0		2	2	2
PUNALUU 884															9.00		2.60	9		.0	0				
WAIHIAWA OAM 863															5.25		1.65	10		.0	0		4	2	2
WAIHOLE 837	A														22.83	11.00	4.26	9		.0	0				
WAILUA 847	A	86.0	68.6	77.3	.6	89	29	63	29		0	0	0	0	2.99	1.61	1.33	9		.0	0		6	2	1
WAIKIKI 717.2		88.9	73.2	81.1		92	14	69	29		13	0	0	0	4.06		1.48	9		.0	0		3	3	2
WAIPIAHU 750	A														2.50	1.27	1.21	10		.0	0		3	2	1
ISLAND				78.2											7.78					.0					
ISLAND OF MOLOKAI																									
KUALAPUU 534	A														2.52	1.30	1.25	4		.0	0		5	1	1
MAPULEHU 542															8.09	5.19	1.36	8		.0	0		15	6	3
MAUNALO A 511															1.79	.59	.49	10		.0	0		0	0	0
MOLOKAI AP 524		83.9	72.1	78.0		88	9	69	30		0	0	0	0	1.44		.38	10		.0	0		7	0	0
ISLAND				78.0											3.46					.0					
ISLAND OF LANAI																									
LANAI CITY 672		78.5	66.5	72.5	.6	84	9	62	24		0	0	0	0	2.72	.94	.63	18		.0	0		8	1	0
ISLAND				72.5											2.72					.0					
ISLAND OF MAUI																									
HALEAKALA B E S 434	A	66.2	48.6	57.4		72	7	42	12		0	0	0	0	5.51	.83	2.02	9		.0	0		7	3	2
HALEAKALA R5 338															8.32		4.30	9		.0	0		6	2	2
HANA AIRPORT		84.9	72.1	78.5		87	1	67	29		0	0	0	0	9.40		2.80	8		.0	0		15	3	2
HONOKOHUA 493	A														3.29	.71	.65	9		.0	0		1	0	0
KAHULUI WB AP	R	85.1	70.4	77.8	- 1.2	88	24	63	29		0	0	0	0	1.33	.98	.76	8		.0	0		3	1	0
KAILUA 446		80.1	68.0	74.1	.9	83	9	64	13		0	0	0	0	20.07	8.76	9.12	9		.0	0		19	6	5
KEANAE 346	A														30.48	8.73				.0	0				
KIPAHULU 258															8.03	.43	2.64	8		.0	0		16	4	1
KULA SANATORIUM 267		73.5	58.5	66.0	- .7	77	20	56	5		0	0	0	0	4.93	2.64	1.85	9		.0	0		6	3	2
LAHAINA 361		88.9	70.5	79.7		92	27	68	11		11	0	0	0	.36	.06	.21	9		.0	0		2	0	0
PAIA 406															2.66	.74	1.22	9		.0	0		6	2	1
WAILUKU 392	M																			.0	0				
ISLAND				72.3											8.58					.0					

CLIMATOLOGICAL DATA

HAWAII
AUGUST 1967

CONTINUED

CONTINUED

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date		No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										90° or Above	32° or Below	32° or Below	0° or Below										
ISLAND OF HAWAII																							
HALENA 214	84.7	67.6	76.2	1.7	88	22	64	12		0	0	0	0	6.55	1.91	4.55	3	.0	0		2	2	2
HAWAII VOLCNS NP HQ 54	72.4	55.8	64.1	.5	75	30+	51	10		0	0	0	0	12.59	5.00	4.42	8	.0	0		8	3	3
HILO WB AIRPORT	84.2	70.0	77.1	1.3	86	25+	67	29+		0	0	0	0	19.55	8.10	8.93	8	.0	0		15	6	4
HUEHUE 92A														6.40	3.68	3.20	31	.0	0				
KAINALIU 738	80.7	64.2	72.5		84	9	61	30+		0	0	0	0	10.89	3.20	2.02	30	.0	0		20	5	4
KAMUELA AIRPORT	75.4	60.7	68.1		78	21+	53	6		0	0	0	0	.49		.20	8	.0	0		2	0	0
KEAAU 92	83.9	66.7	75.3	.2	86	28+	65	29+		0	0	0	0	18.62	6.87	5.54	8	.0	0		12	4	3
KEALAKEUA 26.2	80.8	65.6	73.2		85	9	63	22		C	0	0	0	9.15		1.60	30	.0	0		15	8	4
KEHENA RESERVOIR 176.1														4.02		1.74	8	.0	0		2	1	
KONA AIRPORT 68.3	85.5	72.0	78.8		87	19	70	26+		0	0	0	0	1.22		.19	25+	.0	0		6	0	0
KUKUIHAELE HIC 199														4.42	- 1.55	2.24	3	.0	0		3	2	2
KULANI CAMP 79	67.9M	48.3M	58.1M		78	13	43	29+		0	0	0	0	12.37		6.35	8	.0	0		6	3	3
MAUNA KEA BEACH	89.4	73.2	81.3		93	27+	61	19		13	0	0	0	.20		.07	9	.0	0		0	0	0
PAHALA 21	81.6	64.4	73.0	- 1.0	87	3	61	18+		0	0	0	0	9.47	6.41	3.44	9	.0	0		8	4	3
POHAKULOA 107														.82				.0	0				0
PUAKO 95A														.13		.05	30	.0	0		0	0	0
PUU WAAWAA 94.1														2.71	.58	1.22	31	.0	0		6	1	1
UMIKOA 118														10.16	5.10	4.65	8+	.0	0		4	2	2
WAIKAE SCD 88.2														24.44		8.95	8	.0	0		13	8	4
ISLAND			72.5											8.12				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 94° ON THE 27TH AT MANA 1026, KAUAI

LOWEST TEMPERATURE: 33° ON THE 19TH AT MAUNA LOA SLOPE OBS, MAUI

GREATEST TOTAL PRECIPITATION: 41.00 INCHES AT KAHANA 883, OAHU

LEAST TOTAL PRECIPITATION: .00 INCH AT KAUNAKAKAI 536, MOLOKAI

GREATEST ONE-DAY PRECIPITATION: 10.64 INCHES ON THE 8TH AT NAULA FOREST 386, HAWAII

SPECIAL WEATHER SUMMARY

The weather event of greatest interest during the month was the 3-day period of heavy rain which affected the Islands from August 7 to August 10.

The rains were due mainly to a weakening tropical disturbance that appears to have formed southeast of Hawaii and then moved northwestward through the island chain.

Intermittent flooding occurred in the Hilo area when over a foot of rain fell there between the evening of the 7th and the morning of the 9th. Minor landslides were reported on the Belt Highway north of Hilo, and a flash flood near Hookena, in South Kona, stranded a movie company for several hours on the 9th.

The heavy rains reached Oahu on the morning of the 8th, resulting in several minor rockslides, one of which closed a lane of the Pali Highway, and some overflowing of streams in the Kipapa and Waiawa areas. An Aina Haina (Honolulu) home was nearly totally destroyed by a mud- and rock-slide about 10:30 a.m. on the 9th. Three-day (8th to 10th) rainfall amounts on Oahu were generally 3 to 4 inches along the leeward coastal plain and 6 to 8 inches in the adjoining mountains. At Helemanu Intake, in the Koolau Mountains, 3.65 inches of rain fell during one hour on the morning of the 9th.

The weakening disturbance moved over Kauai

late on the 9th, depositing 2 to 3 inches of rain. At Princeville Ranch, on Kauai's north coast, more than 1.5 inches fell so rapidly during the morning of the 10th that the recording rain gage trace did not permit an accurate time estimate. Some flooding occurred on the Hanapepe, Hanalei, and Wailua Rivers.

Other noteworthy weather events during the month included the 2-inch rain which disrupted telephone service in the Kau area of Hawaii on the evening of the 2d; the snows that capped Mauna Kea during the evenings of August 2 and August 7, occurrences infrequent in the summertime; and the surf along the Kona coast of Hawaii on the 16th, described as the biggest there in many years, but for which no damage was reported. High surf at Kaanapali, Maui, on the 30th, was reported to have washed across the highway.

On all major islands of the State, some areas received well above, and others well below, the monthly mean rainfall. For example, on Oahu, the 0.17 inches at Lualualei was 22 percent of normal, while the 8.76 inches at Wilhelmina Rise was 389 percent of normal, and 3.06 inches greater than its previous 39-year record maximum for August.

Stations with 25 or more years of record, and that exceeded their previous 24-hour or monthly record totals for August, are listed below.

Stations Whose Greatest Previous August Rainfall

Totals were Exceeded in August 1967

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest August Total	August 1967
<u>OAHU</u>			
Helemanu Intake	49	11.40	11.60
Kalihi Reservoir Site	40	15.68	16.72
Kaneohe Mauka	39	7.96	10.79
Kapalama	45	8.58	8.87
Waiahole	51	21.24	22.83
Waialae-Kahala	46	3.50	6.54
Waikane	51	20.33	23.68
Wilhelmina Rise	40	5.70	8.76
<u>MOLOKAI</u>			
Mapulehu	75	7.66	8.09

HAWAII - AUGUST 1967

SPECIAL WEATHER SUMMARY - Continued

Stations Whose Previous Greatest 24-Hour Rainfall

Totals were Exceeded in August 1967

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous August 24-Hour Extreme	August 1967
<u>OAHU</u>			
Kapalama	45	3.46	3.90
Koolau Dam	53	3.46	3.94
Wilhelmina Rise	40	2.62	5.62
<u>MAUI</u>			
Hamakuapoko	25	3.01	3.05
Kailua	61	4.60	9.12
Paia	29	1.19	1.22
<u>HAWAII</u>			
Papaikou	61	7.80	8.13
Pepeekeo Makai	61	6.35	6.55

Russell Dorr
Acting State Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
AUGUST 1967

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																		
ANAHOLA 1111	A	2.31	.02			.01	*	*	.55	.15	.06	.46	.16	*	*	.28		.03	.03	.15	*	*	.05	.30	.06									
BRYCESWOOD STA 985	A	4.84	.10	.34		.02	*	*	.21	.23	.21	2.30	.11	*	*	.19	.06	.03	.26	.25	*	*	.03	.08	.15	.02	.22	*	*		.03	T		
EAST LAWA 934	A	5.24	.10	.17	T			.26	.32	.22	2.07	.13	*	*	.28	.07	.05	.31	.13	*	*	.11	.17	.22	.26	.01	*	*		.22				
ELELEE 927	A	2.67	.05	.04				.03	.14	.01	2.27	T	*	*				.03	.05			T		.02								.03		
HALAULA 1110	A	2.29	.05	.04				.40	.19	.11	.39	.04	*	*	.25			.07	.29	*	*	.16	.10	.06	.05	.05							.04	
HALEMANAHO 1006	A	7.31	.24	.23		.43	*	.76	.61	.21	1.85	.33	*	*	.61	.10	.06	.23	.49	*	*	.08	.47	.27	.03	.25	*	*		.06				
HUKIPO 945	A	2.28		.12							.36	1.77													.03									
ILILIILUA INTAKE 1050	A	14.12	.28	.94	.04		.30	.60	.32		.10	.56	.40	.29	1.17	.26	.50	.17	.90			.18	.76	.90	.12	.05	.02	.50	.92	.11	.80	.20	.10	
INTAKE WAINIHA PC 1086	A	7.31		.07		.45	*	.27	.23	.22	1.73	.01	*	*	.18	.02	.05	.13	.02	*	*	.04	.8	.12	.02	.19	T			.26	*	*		
KALIHUWA RES 1131	A	10.62	.06	.05	.13	.92	*	.44	.52	.22	3.13	*	*	*	.79	.18	.10	.21	.88	*	*	.22	.60	.71	.27				.16	.20	.03			
KANALOHULULU 1075	A	.89	.01	.01			.01	.08			.27	.13			.16	.01	.01	.03	.02	.01	.01	.02	.07	.01				.01			.01	.01		
KANEHA RESERVOIR 1092	A	7.11	.12	.15	.03	.04	*	1.23	.56	.39	.83	.53	*	*	.64	.15	.12	.11	.63	*	*	.15	.45	.32	.60	.10	*	*		.16		.03		
KAPAA STABLES 1104	A	3.08	.37	.08		.15	*	.34	.06	.06	.40	.20	*	*	.40		.02	.23	.20	*	*	.08	.25	.08	.06					.16				
KEALIA 1112	A	1.86						.27	.06	.19	.16	.02	*	*	.28		.12	.07	.20	*	*	.08	.13	.13	.02									
KEKAA 944	A	1.95		.04				.02	.08		1.81																							
KILAUEA 1134	A	5.05	.21	.06	.02	.03	*	.53	.49	.22	.33	1.77	*	*	.27	.21	.07	.05	.08	*	*	.16	.32	.14	.06	.03								
KILAUEA FIELO 17 1135	A	6.69	.08	.04	.07	.13	*	.59	.47	.19	.49	1.44	*	*	.31	.31	.09	.14	.50	*	*	.16	.43	.46	.51	.09	*	*		.06	.12	.01		
KILAUEA POINT 1133	A	2.91	.07	.03			.17	.42	.10	.12	.76	.08	.22		.19	.03	.06					.02	.04	.27	.02				.10	.07	.01		.06	
KOLO 1033	A	.55									.55																							
KOLOA 936	A	7.13	.14	.26	.04	.10	*	.51	.36	.50	2.55	.09	*	*	.53	.11	.12	.30	.19	*	*	.08	.36	.20	.28	.09	*	*		.32				
KOLOA MAUKA 994	A	8.87	.20	.51	.11	.35	*	.69	.86	1.74	1.19	.23	*	*	.57	.09	.16	.48	.40	*	*	.15	.47	.40	.15	.16	*	*		.06				
KOLORES RES 1137	A	5.80	.11	.09	.06			.67	.38	.21	.85	.82	*	*	.45	.32	.02	.14	.35	*	*	.18	.30	.30	.34	.03	*	*		.07	.15			
KUKULUA 935	A	3.44	.07	.12	T			.21	.23	.22	1.73	.01	*	*	.18	.02	.05	.13	.02	*	*	.06	.12	.02	.19	T				.04				
LIMUE VARIETY STA	A	4.91	.12	.12	.22	.12	.32	*		.34	.63	.32	.17	*	.43	.01	.15	.19	.63	.02	*	*	.22	.44	.05	.10	.66				.02	.01		.12
LIMUE 1020	A	3.20	.10	.04		.02	*	.36	.15	.72	.67	*		*	.22	.02						.40	.11	.02	.03	.08	*	*		.02	.01			
LIMUE WB AIRPORT	R	1.98	.13		.01	.04	.13	.17	.07	.07	.70	T	.03	.04	.05	.02	.01	.05	.01	T	T	.21	.01	.05	.14				.01	.08	.01		.03	
MAKAHUEA POINT	A	1.95	.01	.03			.22	.01		.18	.30	.71		.02	.06		.02	.13	.06			.02		.09										
MAKAWEI 965	A	2.36						.04	.08	2.19								.02				.03												
MANA 1026	A	.93						.02	.87		.02											.02												
MOHIMI UPR CROSS 1083	A	1.84	.14				.07		.07	.79	.14		.07				.14	.21	.07			.07	.07											
MOLOOA 1145	A	2.51	.13	.02			*	.31	.16	.12	.73	.25	*	*	.15	.05	.02		.04	*	*	.04	.16	.12	.07	*	*			.01	.13			
NTU RIDGE 1035	A	1.68		.05							.06																							
N WAILUA OITICH 1051	A	15.91	.43	.77	.03	.48	*	1.11	.31	.69	3.37	1.54	*	*	1.93	.93	.14	.60	.90	*	*	.32	.62	.73	.39	.23	*	*		.43				
PH WAINIHA 1115	A	11.55	.04	.17	.02	.50	.21	1.52	.03	.51	.75	.42	1.08	1.78	1.43	.06	.08	.30	.85	.03	.09	.20	.37	.67	.06	.13	.07		.04	T				
PRINCEVILLE RANCH 1117	A	8.64	.09	.16	.13	.05	.03	.45	.05	.34	.25	.28	.41	.05	.23	.15	.17	.07	.08	.41	.05	.17	.24	.42	.24	.26	.03		.03			.07	*	
PUEHU RIDGE 1040	A	1.91		.16						.96	.79																							
PUMI 1013	A	4.77	.11	.09		.02	*	.60	.34	.16	1.32	.04	*	*	.43	.02		.10	.33	*	*	.05	.80	.02	.11	.16	*	*		.05	.02			
RESERVOIR 6 1004	A	6.65	.29	.17	.04	.07	*	.53	.64	.74	1.76	.02	*	*	.52	.06	.09	.34	.36	*	*	.27	.37	.11	.13	.14								
WAIHANA 930	A	2.95	.05	.04				.04	.12	.02	2.43	T			.06			.07	.05	*	*	.04	T	.02	.01	T								
WAIHANA MOUNTAIN 990	A	14.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.50	*
WAIAMI LOWER 1054	A	10.32	.26	.73	.02	.30	.31	.28	.05	.55	.27	1.98	.62	.10	.47	.31	.44	.16	.40	1.07	.10	.03	.03	.42	.73	.02	.51	.11	.05	.02		.03	*	
WAIAMI UPPER 1052	A	12.53	.12	.70	.05	.45	.48	.25	.05	.78	.55	2.95	1.09	.50	.39	.27	.50	.21	.35	.40	.07	.01	.02	.43	.65	.35	.59	.18	.12			.02		
WAILUA 807	A	2.02								.02	.06	.80																						
WAILUA KAI 1065	A	2.28	.15	.05				.49	.07	.11	.47	.03	*	*	.30		.03	.04	.14	*	*	.15	.10	.15										
WAIWEE 947	A	2.65	.07					T	.08	.27														.23										
WEST LAWA 931	A	3.57	.10	.11		.03	*	.18	.18	.21	1.81	T	*	*	.13	.03	.02	.21	.14	*	*	.04	.08	.05	.20	*	*			.05				
ISLAND OF OAHU																																		
AIEA FIELO 625 761	A	6.04		.15	.05	.08				.30	1.42	3.03	T	*	.12		.10	.13	.16	*	*	.23	.08	.14	.01					.04				
BERETANIA PUMPING STA	A	3.68			.07	.05				.86	.86	1.25	T	.01	.12		.08	T	.02			.02	.04	.09	.13				.02	.06	*			
CAMP 807	A	2.46	.14		.04	.01				.35	.91								.26	.15														
CHURCH COLLEGE LAIE	A	5.56			.04	.55	.53	.03		1.25	1.30	.44	T		.13	T	.06	.05	.24	.02	.32	.12	.13	.04	T	.26	.05			.05		.01		
COCONUT ISLAND 840.1	A	7.20		.12	.64	.26	.40	.05	.01	.70	1.41	1.19	.01	.02	.29	.17			.35	.58			.58	.07	.15	.08								
EWA PLANTATION 741	A	1.34		T		.09	.01			.39	.32																							

DAILY PRECIPITATION

HAUAI
AUGUST 1967

Continued

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF MOLOKAI																																	
KALAUPAPA 563	3.14										1.02	.09	.03				.15	.05	.02	.03					.20	.26			1.01	.10	.08	.10	
KALANAKAPU 536	A .40																																
KEUNEELELE PENS 551	A 1.56																																
KUALAPU 534	A 2.52																																
MAPULEHU 542	8.09	.02	.57	T	.55	1.25			.09	.10	.86	.41	.02	.14		.05	.09	.32	.01	.03	.21	.02	.34	.07	.05	.41	.49	.01	.17	.13		.02	
MAUNALO 511	1.79			.06	.16				.06	.30	.49					.46					.14				.05	.03	.01			.03			
MOLOKAI AP 524	1.44				.14				.17	.17	.38				T	.10					.22				.06	.06	.11			.03			
PUUMOHUKU RANCH 542.1	6.62		.45	.26			.05		.38	.70	.30			.10	.18		.19	.91				.06	.08	.98	.25	.29	.44	.70	.12		.81		
WAIKOLU 540	A 6.57							1.46							2.23	.24																	
ISLAND OF LANAI																																	
KANEPUU 690	A 1.61			.01							.57	.09						.67								.22						.14	
KAUHALAPAU HARBOR 658	A 1.26				T	.19				.43		.40	.01		.01	.16			.04	.01		T	.39	.10	T	.28	.43	.05					
LANAI CITY 672	2.72								.07	.10									.95														
LAIKIMALE 684	A 4.14			.06							.54															1.43						1.16	
MAHANA 694	A 2.14																															2.14	
MALAEUA 676	A 1.53										.53							.23									.73					.04	
WAIKAEKUA 685	1.00							.01			.38				.13							.32		.13						.03			
ISLAND OF MAUI																																	
AUAKAMI-252	A 4.10										3.60				.15											.35							
HALEAKALA E E S 434	A 5.51			.62	.04				1.86	2.02	.11				.27		.06	.07	.31				.02					.12	.01				
HALEAKALA RANCH 432	A 2.99			.21					.97	1.31	.17								.26					.07									
HALEAKALA K S 338	8.32			.15	.34				2.78	4.30	.06			.03	.15	.03	.01	.07	.07			.04	.06	T	T		.03	.20	T				
HALEAKALA SUMMIT 338.4	11.13			.05	.55				2.06	8.20	.15				.02												.05						
HALLIMALE 423	2.47			.08	.02				.98	.82	.30	T	.01					.06	.12													.04	
HAMAKUAPOKO 485	5.43		.02	.26	.13	T			.78	3.05	.38	T	.08	.07	T		.09	.16	.20	.01	.03	.11			T		.05	.01					
HANA 354	7.13	.05		.50	.63			.04	.20	1.70	.02	.11	.10	.50	.38			.72	.24		.07	.05	.95	.19	.48	.05	.15						
HANA AIRPORT	9.40		.10	2.04	.06	T	.07	.04	.20	1.70	.02	.11	.10	.50	.37	.11	.51	.37	.45	.04	.31	.45	.02	.22	.25	.45	.05	.02	T				
HANAHULI 281	6.99	T	.05	.87	.06	.14	.10	.05	2.20	.21	.12	.10	.08	.16	.02	.50	.18	.18	.33	.02	.08	.42	.08	.28	.27	.29	.05		.15		T		
HOLUA CABIN 259.5	A 7.42											7.00														.42							
HONOKOHU 480	A 14.30																															14.30	
HONOKOHU 493	A 3.29		.06	.13	.12				.34	.65	.28				.08	.04	.10	.22	.49				.35	.12	.03	.09	.03			.16			
HONOHANU GULCH 361	A 8.80																															8.80	
KAHOMA INTAKE 374	A 5.15				.52							2.69							1.42								.52						
KAHULUI HB AP	R 1.33		.01	.01				.07	.76	.24		.02					.02	.06			.03					T	.11						
KAILILI 436	9.37																															9.37	
KAILUA 446	20.07		.13	2.25	.64		.04		2.79	9.12	.23	.08	.33	.40	.13	.10	.40	1.49	1.00	.05	.15	.04	.03	.16	.12	.11	.16	.10				.02	
KAUHALU INTAKE 375	A 1.98							.23							.94							.15							.66				
KEAHUA 410	1.64			T	.01				.77	.37	.35								T	.13								.01					
KEANAE 366	A 30.48																															30.48	
KEANAEAPU BEACH 260.2	2.17			.01					.37	.94					.05							.80											
KIMEI 311	5.55								.01	.20	.32				T																		
KIPAHULU 258	8.03		.82	.14		.07	.04	2.64	.84	.10	.08	.10	.32	.31			.40	.22	.62	.06			.14	.27	.12	.28	.46						
KULA HEIGHTS 323.2	3.05		.01	.56					.41	.95	.41																						
KULA SANATORIUM 267	4.93			.30	T			.10	1.85	.31	T			1.52						.04		.71	.02	T		.08							
LAHAINA 361	3.36								.21	.15																							
LAUJUPOKO INTAKE 376	A 2.20																															2.20	
LAUJUPOKO VILLAGE 372	A 5.08								.35		.18												.08										
LUPU UPPER 442	A 23.40																															23.40	
MAHINAHINA 466	A 1.55			.02					.61	.14	.27				.20		.01	.05	.07				.12			.06							
MAKALELE -FLD 60-497	A 5.08							.57							2.08							1.49								.94			
LINDA 332	A 5.96			.62	.34			T	1.46	2.17	.13	T			.79	.01	.03	.16	.14			.03	T	T						.08	T		
OLUHALU 296	.19									.05	.14																						
OLUHALU GULCH 377	A 1.60																															1.60	
POHAKA 350	24.06	.04	.06	3.27	1.66	.17	.04	3.20	6.48	.58	.11	.37	1.26	.16	.16	.88	1.37	1.55	.06	.14	.20	.04	.57	.82	.03	.28	.52					.04	
PAIA 406	2.66		.01	.16	.01				.66	1.22	.26		.03	T			.02	.13	.10		.01	.01											
PANILEIHEHU 259.2	A 8.00																										.50						
POHAELA 490	A 8.64		.03	.06	.24			1.82	4.89	.02	.07						.22	.03	.42			.25		.02	.03				.14				
POHAKA BRIDGE 307.2	A .52							.04	.16	.25										.05													
POLIPOLI SPRINGS 267.2	A 10.35	.29							6.98								.33									2.54						.21	
PUMENE 396	A 30.00																															0.00	
PUU KUKUI MAKA'I 472	A 3.00																													3.00			
PUMENE 396	1.07								.41	.31	.28							.03	.02									.02					
PRECKELSVILLE 400.2	2.02			.06					.85	.72	.22						T		.03	.02		T						.01	.02				
WIN GATES 261.3	A 1.																																

DAILY PRECIPITATION

Continued

HAWAII
AUGUST 1967

Station		Total	Day of Month																																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
KAMUELA 192.2		1.17			.12				.12	.24	.06	.14			.02	.13	.04		.03	.02	.13	.02		.04			.03									
KAMUELA AIRPORT		.49			T				.04	.20	.03	.07	.01			.02	T		T	.01	.11	T					T	T								
KAPAPALA RANCH 36		9.52			2.80	.57			1.55	2.40	.06																									
KAPHO LANDING 935	A	9.83	*		2.85	*			1.55	2.40	.06																									
KAUMANA 88.1		27.56			.03	6.65	.72	.01	.01	.03	8.80	6.27	.06	.15	.47	.08	1.12	.28	.03	.30	.54	.05					.16	.29								
KAWAINUI LOWER 193		10.08	*																																	
KEAAU 92	A	18.62			.05	4.06	.23																													
KEALAKEKUA 26.2		9.15	1.00		.05		.05	.11	.50	T	.04	.03	.15	.51	.68		.21	.99	.18	.16	.09	.49														
KEHENA 181.2	A	5.06																																		
KEHENA RESERVOIR 176.1	A	4.02			.63	.13	*			.05	1.74	.45	.03	*				.24	.10	.02	.20	.09														
KIOLAKAA A 7 F 6	A	7.20	*																																	
KIPA 89.2	A	27.44			.04	7.47	.62	.01	.03	.08	9.11	5.45	.15	.12	.67	.15	.21	.33	.09	.13	.59	.02														
KOHALA 179A	A	4.46			.03	1.28	.23	*			.02	1.02	.15	.01			.52	.04	.07	.35	.26															
KOHALA MAULILI 176	A	4.90			.02	1.39	.36			.19	.74	.39	.04	*			.52	.04	.11	.43	.27			.05	.05	.05										
KOHALA MISSION 175.1	A	4.54			.03	1.34	.26	T		.02	1.15	.05	T			.54	.06	.02	.07	.35	.27	.03	T													
KOIAHE LOWER 196	A	6.56	*																																	
KONA AIRPORT 68.3		1.22			.01	.14																														
KUKAIUA 222		13.48				7.35	.01				5.30	.39	T		.05							.14														
KUKUHALE HIC 199		4.42	.02	.01	2.24	.02	.02				1.50	.04	.02				.16	.02	.09	.03	.05		.03	.01	.03											
KUKUHALE MILL 206		3.67	.01	.02	2.27	.01	*		.01	.87	.03	.02					.15		.03	.03	.01			.04												
KULANI CAMP 79		12.37				2.60					6.35	2.30	.05	.02	.05	.05	.40																			
KULANI MAUKA 76	A	5.17			.25	1.50	*																													
KULANI SCHOOL SITE 78		8.85	.10				*			2.06	*																									
LANTHAU 68 C		9.21			.18				.09	.12	.21		.05	6.10																						
MANUKA 2		1.85			.28					.29	.09						.16	.39																		
MAUNA KEA BEACH		.20								.05	.07																									
MAUNA LOA SLOPE OBS		2.31			.03	.20					1.79	.06		.21	.02																					
MIDDLE HUALAOLA 68.1		4.55	.25	.18			.33										.11	.20	.19	.12																
MIDDLE PEN 147.1	A	1.50																																		
MOAULA 18		4.70																																		
MOUNTAIN VIEW 91		24.38		.02	3.92	1.05		.02	.04	7.95	6.27	.07	.24	.29	.14	.68	.42	.03	.25	.71	.10		.01													
NAALEHU 14	A	7.96		.02		2.54	.04				.77	3.41	.01																							
NAPOOPOO 28		4.29								1.14							.13	.38																		
NAULU FOREST 38.6		19.14				4.43	.08				10.64	3.18	T	.01	.03		.35	.05																		
NIULII 179	A	4.66		.05	1.40	.22					1.16	.08					.68	.05	.10	.35	.16		.06	.03	.01											
OOKALA 223		14.06				6.50	.28		.04	4.88	1.45					.11	T	.03	.06	.11	.06	T														
OPINIALE 2 24.1		7.55	.60	.14	.36	.21	.33	.03								.01	.60	.21	.42	.05	.02	.01	.26	T		.01	.02	T	.11	.01	.23	.02				
ORCHIO LANO EST 91.5		17.67																																		
PAUHAU 217		7.84				5.04					2.46	.10	.01			.05	.01		.02																	
PAUULO 221		11.94				6.85	.26				4.21	.42	.02			T																				
PAHALA 21		9.47				3.20	.32				1.21	3.44	.01				.26	.01																		
PAHOA 65		17.74				2.23	.38		.06		4.20	7.10	.10	.12	.12	.06	.27	.18	.13	.09	.45	.03	.18													
PAKAO 37	A	11.10	*																																	
PAPAIAKOU 144A		22.52		.04	4.55	.60					5.78	8.13	.06	.03	.37	.16	.47	.16	.38	.11	.48	T	T													
PAPAIAKOU MAUKA 140.1		25.20				6.36	.26	T	.05		.11	7.21	6.57	.07	.07	.58	.07	.64	.31	.08	.17	.60	.02	T	.07	T	.06	.02	.25	.22	.77	.03	.06	.08	.47	
PEPEKEO MAKAI 144		19.68	.10			4.63	.25		.01	4.90	6.55	.11	.14	.02	.03	.43	.12	.47			.50															
PIIHONUA 89	A	28.80					*																													
POHAKULOA 107		.82					.75	*																												
PUAKO 95A		.13																																		
PUU KIHU 120	A	9.78	*			.02					.01	.02	*																							
PUU LAAU 102.1	A	1.89	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU LEHUA 73	A	2.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU MALI 113	A	3.53	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUUKUMAU 167		3.26			.85	.15	*		.03	.75	.12	.04	*				.38	.07	.03	.28	.20	*		.03	.01											
PUU OO 82	A	14.48					.02				5.17	2.35	.03	.05	.20		.50	.02	.01	.01			.01	.09		.11	.01									
PUU WAAKAA 94.1		2.71	.02							.05	.13	T																								
SAOOLE ROAD 1 84	A	26.01	*	*	*	10.01	*	*	*	*																										
SOUTH POINT CORRAL 3	A	2.64	*	*		1.28	*	.01	.67																											
UMIKOA 118		10.18				4.65	.01				4.65	.42	.08	.03					.01	.04	.07	.31	.02	T												

DAILY TEMPERATURES

HAWAII
AUGUST 1967

Station		Day Of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX	76	72	76	77	78	76	76	78	73	71	68	72	70	74	78	75	74	74	78	80	73	74	75	76	76	77	74	76	77	75	79	75.1	
	MIN	60	58	60	60	60	59	58	61	61	51	59	58	60	59	58	59	58	61	56	60	62	58	61	56	60	61	61	58	47	51	56	58.3	
KILAUEA POINT 1133	MAX	87	86	87	88	88	85	85	86	79	80	84	86	81	85	86	85	86	86	87	87	86	85	87	88	86	87	87	87	88	88	89	85.9	
	MIN	71	75	75	74	72	73	71	73	72	70	72	74	75	75	78	74	75	75	73	73	73	75	75	76	76	76	75	72	75	76	74	74.0	
LIMUE W8 AIRPORT	MAX	82	84	84	85	83	84	84	84	78	83	83	83	85	85	84	85	83	85	85	85	85	85	86	85	85	86	85	84	85	82	84.1		
	MIN	71	74	75	74	74	75	74	74	70	70	75	74	74	72	73	74	73	74	74	72	73	74	75	75	76	76	74	75	68	71	74	73.5	
MAKAHUEA POINT	MAX	87	86	85	87	86	87	87	87	87	79	85	85	85	87	87	86	87	86	86	84	86	87	86	87	87	87	88	87	87	87	88	86.2	
	MIN	73	73	73	72	67	74	71	75	73	71	72	75	75	75	77	73	72	73	70	73	74	75	74	73	73	76	74	73	73	73	74	73.2	
MANA 1026	MAX	87	88	88	88	90	89	88	89	87	87	86	89	86	90	86	90	90	87	90	89	90	89	91	90	89	90	94	92	89	91	88	88.9	
	MIN	72	67	68	70	72	71	69	71	72	69	68	66	71	70	70	68	71	70	69	68	66	69	70	71	72	70	69	70	70	69	67	69.5	
NIU RIDGE 1035	MAX	85	82	84	83	84	83	83	84	83	80	81	82	83	82	82	83	84	84	82	84	83	84	84	84	83	84	84	85	85	84	85	83.3	
	MIN	64	65	65	64	65	65	66	65	64	63	63	64	65	64	63	65	64	64	63	65	64	65	65	65	65	65	64	64	65	64	65	64.4	
WAIAMI LOWER 1054	MAX	83	81	81	82	81	82	81	82	80	80	80	80	82	82	82	81	81	82	82	82	82	81	82	82	82	81	83	83	83	84	84	81.7	
	MIN	64	66	64	64	64	64	64	72	70	67	67	66	69	67	70	67	68	70	70	65	67	68	69	67	70	71	71	65	63	63	67	67.1	
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX	86	89	88	86	90	89	88	85	77	87	87	88	90	89	89	87	86	90	89	89	87	89	89	91	87	89	89	90	91	90	90	88.1	
	MIN	70	70	74	73	73	73	71	73	71	70	71	70	72	73	72	70	70	72	73	71	71	72	72	70	73	76	70	68	68	69	68	71.3	
HONOLULU W8AP 703	MAX	89	90	89	88	90	91	91	86	80	88	87	88	90	90	89	88	87	90	89	87	88	89	89	91	87	89	91	91	91	90	89	88.8	
	MIN	77	76	76	76	77	78	77	74	71	76	76	74	76	76	77	74	74	77	77	73	73	75	76	74	77	78	76	73	71	73	75	75.3	
HONOLULU SUBSTA 704	MAX	83	84	82	83	85	84	84	83	79	82	83	84	85	84	84	82	83	85	83	83	83	84	84	85	83	83	84	85	84	84	84	83.5	
	MIN	76	75	75	76	75	77	77	74	70	79	76	75	78	78	76	73	75	77	77	74	76	74	75	76	78	78	77	76	74	75	76	75.7	
KAHUKU 912	MAX	85	84	84	84			85	85	82	79	84		84	85	84	83	82				84	84	84	85			85	85	86	85	84.0		
	MIN	70	73	74	72			71	72	70	70	73		72	73	73	70	71				71	71	73	72	75		75	67	73	76	72.0		
KANEONE MAUKA 781	MAX	85	84	84	80	80	84	83	82	82	87	83	81	83	83	83	84	86	87	85	84	80	81	85	85	84	85	83	85	84	85	85	83.6	
	MIN	74	74	73	73	72	72	72	73	75	71	72	70	71	74	72	72	70	71	73	71	71	69	72	69	70	72	74	71	71	70	72	71.8	
MAKAPOU POINT 724	MAX	82	82	82	78	81	82	80	81	80	76	80	80	82	81	83	82	79	79	82	82	81	81	83	83	83	82	81	81	83	82	82	81.2	
	MIN	76	73	75	72	74	77	75	72	73	71	72	73	73	73	76	73	72	77	73	73	75	75	72	78	76	73	75	74	72	72	76	73.9	
OPAULA 870	MAX	82	79	82	79	80	82	81	82	79	74	79	79	82	84	83	82	79	79	82	81	80	81	82	82	84	81	80	82	84	85	82	81.1	
	MIN	68	68	69	70	69	69	70	69	69	67	68	67	69	70	70	67	67	67	69	68	66	66	68	66	66	71	69	65	65	65	67	67.9	
PRI WAIHANA 820.2	MAX	87	82	86	85	83	88	88	87	85	75	84	84	86	88	87	86	84	83	85	86	85	84	86	86	88	84	87	87	87	88	87	85.4	
	MIN	68	66	70	72	72	74	69	70	71	68	69	68	69	68	71	69	69	69	71	70	67	69	69	68	69	72	71	67	64	66	66	69.1	
WAIALUA 847	MAX	88	86	87	86	84	86	87	87	85	80	85	83	85	88	89	86	84	85	86	85	85	86	87	87	88	84	85	86	89	88	88	86.0	
	MIN	67	64	69	74	74	71	70	69	72	70	67	67	67	68	68	69	70	70	70	72	69	68	69	66	67	68	73	67	63	65	64	68.6	
WAIKIKI 717.2	MAX	90	88	90	89	89	91	91	90	88	83	87	86	89	92	90	88	87	87	88	89	88	89	90	89	91	87	88	90	90	90	91	88.9	
	MIN	73	74	75	74	74	76	74	74	70	70	74	70	75	76	75	72	73	75	76	71	72	73	72	72	76	77	73	72	69	70	73	73.2	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX	86	84	83	79	85	85	85	85	88	77	85	82	84	84	85	84	83	80	84	84	83	83	83	84	87	86	84	84	86	85	85	83.9	
	MIN	72	73	74	72	73	71	71	70	70	72	72	72	72	72	72	74	71	72	71	71	72	74	73	72	71	75	77	73	69	69	72	72.1	
ISLAND OF LANAI																																		
LANAI CITY 672	MAX	81	79	77	78	82	80	80	77	84	72	79	78	79	81	79	79	74	76	78	77	76	77	79	78	79	79	77	78	80	79	81	78.5	
	MIN	63	68	70	68	62	65	65	70	69	65	66	67	69	68	68	68	65	69	67	68	68	67	63	62	68	67	67	65	65	63	66	66.5	
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX	68	69	69	66	69	68	72	65	64	60	68	62	63	65	70	68	64	68	70	68	66	65	63	63	65	67	62	65	68	64	67	66.2	
	MIN	46	45	52	42	56	55	55	54	51	50	44	42	46	49	53	48	47	54	53	51	49	48	45	45	53	49	44	47	45	43	47	48.6	
HALEAKALA SUMMIT 338.4	MAX	58	60	61	59	60	55	60	58	55	49	54	54	57	66	64	62	60	56	57	60	58	55	56	53	55	69	56	59	62	61	60	58.4	
	MIN	43	48	44	47	47	49	42	44	42	40	43	49	40	45	43	49	41	47	48	46	42	41	39	44	41	45	46	44	45	46	45	44.4	
MANA AIRPORT	MAX	87	86	85	86	86	86	86	84	81	83	85	85	84	86	85	85	82	84	86	85	84	86	85	84	84	85	85	86	86	86	85	84.9	
	MIN	70	72	70	74	72	70	74	74	72	72	72	70	72	75	72	72	70	77	78	71	71	70	74	71	70	74	71	75	74	73	70	72	72.1
KAHULUI W8 AP	MAX	86	88	85	87	87	87	87	85	76	84	84	84	87	88	85	81	85	86	84	81	87	86	85	88	86	83	85	86	86	86	84	85.1	
	MIN	72	72	74	74	74	74	65	73	71	71	65	67	72	71	73	71	66	70	73	71	67	71	70	66	71	74	7						

Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF HAWAII																																	
HAINA 214	MAX	87	85	83	84	84	85	84	70	79	78	83	83	84	70	86	87	85	86	86	85	87	88	87	85	85	85	81	86	87	87	83	
	MIN	66	67	69	68	68	68	70	87	70	68	65	64	70	75	73	67	67	71	66	66	67	68	67	67	66	69	68	66	66	68	65	
HAWAII VOLCNS NP HQ 54	MAX	72	72	75	70	75	74	73	71	69	71	69	65	72	75	70	72	69	75	74	74	75	73	71	74	74	72	74	73	73	75	70	
	MIN	54	54	58	57	57	56	57	58	59	51	54	52	59	61	57	52	55	60	56	55	57	54	56	56	55	57	55	55	53	56	55	
HILO WB AIRPORT	MAX	86	84	85	85	85	85	84	80	85	85	83	84	85	85	85	83	85	84	85	84	85	85	85	85	86	81	83	84	84	80	84	
	MIN	68	69	73	71	71	72	73	71	71	70	68	68	65	85	73	71	67	72	71	69	70	68	70	69	70	70	69	68	67	71	69	
KAINALIU 73B	MAX	80	80	83	81	82	78	82	81	84	78	80	77	82	82	82	78	80	81	83	80	80	80	80	80	80	79	82	80	83	81	81	
	MIN	64	62	66	66	65	67	64	65	65	63	64	63	65	64	67	66	63	64	66	62	63	64	63	65	64	66	64	65	61	61	63	
KAMUELA 192.2	MAX	74	75	73	74	75	75	74	76	74	73	75	77	73	75	77	73	75	77	76	73	75	76	75	75	77	76	72	76	77	77	75	
	MIN	60	61	63	61	61	61	60	62	62	61	60	60	63	64	61	61	57	62	61	61	61	61	60	62	62	62	61	62	60	60	60	
KAMUELA AIRPORT	MAX	75	75	74	74	74	76	76	75	75	73	73	75	76	78	75	75	76	77	76	77	78	76	74	75	75	76	74	76	75	77	75	
	MIN	63	62	54	62	60	53	64	59	60	60	60	58	66	67	62	62	56	63	58	62	67	60	60	60	60	58	61	66	60	60	60	
KEAAU 92	MAX	83	83	81	82	85	85	85	82	80	83	82	86	86	86	81	83	81	85	84	84	84	86	85	84	86	86	86	86	85	85	81	
	MIN	67	68	67	70	67	67	67	70	67	68	67	66	66	66	69	67	65	67	66	66	66	65	65	68	68	65	65	65	65	66	67	
KEALAKEKUA 26.2	MAX	82	79	83	82	82	80	82	81	85	77	80	78	82	83	82	77	80	80	81	80	81	79	80	80	79	83	81	82	82	81	81	
	MIN	65	64	66	67	67	69	66	68	68	65	64	64	65	66	68	67	64	66	67	64	64	63	64	67	66	67	64	67	64	64	65	
KOHALA MISSION 175.1	MAX	82	82	81	80	81	83	82	83	79	76	80	81	83	84	82	82	81	83	82	83	83	83	83	82	84	82	81	83	83	83	83	
	MIN	70	69	70	72	72	72	71	71	71	71	69	69	70	72	71	69	68	69	70	70	70	69	70	71	71	72	70	69	68	69	70	
KONA AIRPORT 68.3	MAX	86	85	86	86	86	86	86	85	86	86	86	84	86	85	86	85	85	86	87	86	85	86	85	84	85	86	85	85	86	85	84	
	MIN	70	70	70	71	72	74	73	73	73	72	71	71	71	72	72	71	71	75	72	73	72	73	73	72	70	70	72	73	74	73	73	
KULANI CAMP 79	MAX	63	69	71	65	69	71	68	69	68	63	62	64	78	70	71	67	67	69	69	70	70	70	62		64	68	67	63	69	70	70	
	MIN	46	46	56	46	49	52	48	56	54	46	46	47	49	50	54	51	47	52	47	47	47	46	49		47	46	44	43	43	50	45	
MAUNA KEA BEACH	MAX	89	90	90	92	93	91	90	89	85	84	93	87	90	89	89	92	89	89	89	89	90	88	88	88	87	92	93	89	90	89	89	
	MIN	75	72	76	72	79	71	72	75	75	73	71	71	73	77	75	68	72	76	61	73	73	74	74	74	73	74	75	73	73	74	74	
MAUNA LOA SLOPE OBS	MAX	58	56	56	58	59	59	58	47	50	51	52	53	55	58	57	60	59	56	55	57	59	55	55	55	60	59	57	57	56	60	61	
	MIN	36	37	38	39	39	38	37	39	37	38	37	37	41	38	38	40	34	37	33	38	37	36	36	39	38	42	39	38	37	41	42	
MOUNTAIN VIEW 91	MAX	81	79	80	74	81	81	82	75	75	78	78	73	80	81	77	80	75	82	81	80	82	84	80	82	85	81	78	78	81	83	75	
	MIN	61	61	61	64	63	63	65	65	64	62	60	58	62	62	65	63	59	58	63	60	62	58	58	61	61	67	61	60	58	57	62	
NAALEHU 14	MAX	84	83	84	82	82	84	85	82	80	82	83	83	84	84	79	82	81	84	84	82	82	80	83	83	83	83	83	83	83	83	81	
	MIN	67	67	67	71	71	67	69	69	68	69	68	68	68	68	71	67	65	71	71	66	66	67	69	70	71	71	67	67	67	70	68	
OOKALA 223	MAX	83	83	82	82	82	84	82	80	79	82	82	72	83	83	82	84	82	84	83	85	85	84	85	84	83	80	80	85	84	85	81	
	MIN	70	70	70	71	72	73	72	70	69	70	70	71	69	73	70	69	69	69	71	69	71	69	70	72	71	73	70	69	69	69	69	
OPIHIHALE 2 24.1	MAX	82	83	84	82	80	81	83	85	79	79	77	83	81	81	77	76	81	84	78	79	79	81	77	79	81	81	83	82	82	84	79	
	MIN	65	64	65	66	67	63	64	66	63	63	62	62	64	65	67	63	63	65	63	64	65	64	65	65	66	62	64	64	65	65	63	
PAHALA 21	MAX	84	83	87	77	84	84	84	82	81	79	79	80	83	83	79	81	79	83	82	81	80	80	80	81	80	82	84	85	81	83	78	
	MIN	61	62	64	66	65	65	66	68	67	64	62	62	65	69	69	65	61	61	65	64	66	63	63	65	63	66	64	64	62	63	66	
UPOLU POINT USCG 159.2	MAX	84	84	86	84	84	83	86	86	84	83	84	84	85	87	88	84	84	85	84	85	85	83	85	85	85	85	84	84	86	85	84	
	MIN	71	72	73	74	75	74	73	72	73	72	72	71	73	73	74	71	70	74	73	71	72	70	66	75	69	70	68	71	71	70	70	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WB AIRPORT	EVAP	.40	.27	.65	.29	.39	.23	.37	.34	.29	.14	.36	.45	.28	.24	.38	.39	.38	.34	.35	.37	.35	.31	.40	.31	.41	.37	.31	.28	.29	.18	.36	10.30
	WIND	134	166	179	175	203	114	151	139	165	105	181	204	185	111	137	178	184	165	164	152	112	144	171	135	159	174	176	154	140	118	151	48.26
	MAX	95	87	91	90	92	92	90	93	90	82	88	88	87	90	94	90	90	91	92	93	92	91	91	90	91	89	88	91	92	92	93	90.5
	MIN	71	69	70	72	70	72	71	72	72	70	69	69	76	71	71	70	71	72	71	69	70	71	71	70	72	72	71	70	71	70	70	70.8
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.34	.23	.30	.21	.23	.31	.33	.26	.13	.08	.38	.31	.24	.17	.32	.36	.23	.22	.30	.37	.28	.21	.30	.33	.35	.28	.38	.38	.34	.34	.40	8.91
	WIND	52	38	45	36	36	52	51	42	35	21	51	46	30	17	38	46	35	34	35	32	29	30	32	29	38	56	49	40	25	24	32	114.0
	MAX	96	90	95	95	91	96	92	95	90	81	95	95	93	99	97	95	93	94	96	97	95	96	95	94	96	90	93	95	95	96	97	94.1
	MIN	72	71	72	75	75	74	72	71	74	73	72	72	73	76	73	73	73	74	75	75	74	74	73	74	73	72	72	72	72	71	72	73.0
* * * ISLAND OF HAWAII																																	
HILO WB AIRPORT	EVAP	.30	.04	.28	.24	.25	.23	.22	-	.32	.22	.13	.13	.22	.14	.27	.08	.23	.18	.25	.27	.29	.28	.19	.20	.31	.01	.29	.29	.23	.04	.24	6.588
	WIND	67	51	33	44	59	72	53	71	58	50	33	37	70	19	57	49	56	60	63	55	61	75	56	64	83	48	61	61	67	44	53	171.0
	MAX	92	84	85	92	91	89	87	76	85	92	84	84	92	85	85	84	91	89	91	94	92	90	89	89	91	83	91	93	94	82	93	88.4
	MIN	67	68	72	70	70	70	70	71	70	68	66	68	67	72	71	69	66	71	69	67	69	65	68	68	67	68	68	68	65	69	68	68.5

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STATION INDEX

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													AUGUST 1 1961												
STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL										TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII																									
MOUNTAIN VIEW 91	6552	02	PUNA	1	19 03	155 07	1530	6A	6A			PUNA SUGAR CO	PUN KINE 120	A 8393	01	HAWAII	1	19 54	155 24	7750	MO				KUKAIAU RANCH CO
NALERU 14	A 6588	03	KAU	2	19 04	155 38	673	8A	8A			HUTCHINSON SUGAR CO	PUN LAU 102.1	A 8452	05	HAWAII	1	19 50	155 36	7440	MO				STATE DIV OF FISH-GAME
NAPORUO 28	A 6697	04	S KONA	1	19 28	155 55	395	7A	7A			KONA EXPERIMENT STA	PUN LEHUA 73	A 8480	04	N KONA	1	19 34	155 49	4850	MO				GREENWELL RANCH
NAUO FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400	VAR				HAWAII VOLCANOES NAT PA	PUN MALI 113	A 8515	01	HAWAII	1	19 55	155 26	6960	MO				KUKAIAU RANCH CO
NIULU 179	A 6806	01	N KOHALA	1	20 14	155 45	75	6A				KOHALA SUGAR CO	PUNOKUMU 187	A 8548	01	N KOHALA	1	20 12	155 50	1800	7A				KOHALA DITCH CO LTD
DOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUAPAHOEHOE SUGAR CO	PUN OO 82	A 8550	02	S HILO	2	19 44	155 23	6340	6A				W. H. SHIPMAN LTD
OPHIHALE 2 24.1	7166	04	S KONA	1	19 18	155 53	1270	7A	7A			MISS C LEONARD	PUN WAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520	7A				BILLINGHAM RANCH INC
ORCHIO LAND EST 91.5	A 7185	02	PUNA	1	19 34	155 00	445	VAR				BOARD OF WATER SUPPLY	SADOLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340	WE				BOARD OF WTR SUPPLY
PAUHAU 217	7204	01	HAWAII	2	20 05	155 26	415	7A	7A			PAUHAU SUGAR CO	SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	400	WT				HUTCHINSON SUGAR CO
PAUHAU 221	7312	01	HAWAII	1	20 03	155 22	800	7A	7A			HAWAII HILL CO	S POINT TRACKING STA	A 8679	03	KAU	3	18 57	155 41	305	WT				FEDERAL ELECTRIC CORP
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO	UMIKOA 118	A 8780	01	HAWAII	1	19 59	155 23	3420	7A				KUKAIAU RANCH CO
PANDA 45	7457	02	PUNA	2	19 30	155 57	670	6A				PUNA SUGAR COMPANY	UPOLU POINT USCG 159.2	A 8832	01	N KOHALA	1	20 15	155 53	1	8A	8A		U. S. COAST GUARD	
PAKAO 37	A 7463	03	KAU	3	19 22	155 28	5000	MO				HAWAIIAN RANCH CO. INC.	WAIKAEA SCD 88.2	A 9025	02	S HILO	2	19 40	155 08	1050	7A				SHINICHI KANEISHIRO
PAPAKOU 144A	7711	02	S HILO	2	19 47	155 06	200	7A				MAUNA KEA SUGAR CO.	WAIKAEA SCD 88.2	A 9025	02	S HILO	2	19 40	155 08	1050	7A				KAHUA RANCH
PAPAKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270	7A				MAUNA KEA SUGAR CO.	WAIKAEA SCD 88.2	A 9025	02	S HILO	2	19 40	155 08	1050	7A				
PEPEKEO MAKA 144	8000	02	S HILO	2	19 51	155 05	100	7A				PEPEKEO SUGAR CO	WAIKAEA SCD 88.2	A 9025	02	S HILO	2	19 40	155 08	1050	7A				
PIEHONIA 89	A 8051	02	S HILO	2	19 44	155 10	1730	MO				STATE DIV OF FORESTRY	WAIKAEA SCD 88.2	A 9025	02	S HILO	2	19 40	155 08	1050	7A				
POHAKULOA 107	A 8063	02	HAWAII	1	19 45	155 32	4511	VAR				STATE DIVISION OF PARKS	WAIKAEA SCD 88.2	A 9025	02	S HILO	2	19 40	155 08	1050	7A				
PUAKO 95A	8186	05	KOHALA	5	19 59	155 10	5	6A				WILLIAM PAYNE	WAIKAEA SCD 88.2	A 9025	02	S HILO	2	19 40	155 08	1050	7A				

† DRAINAGE CODE: KAUAI 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in $^{\circ}\text{F}$, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are in terms of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And Also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for date of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

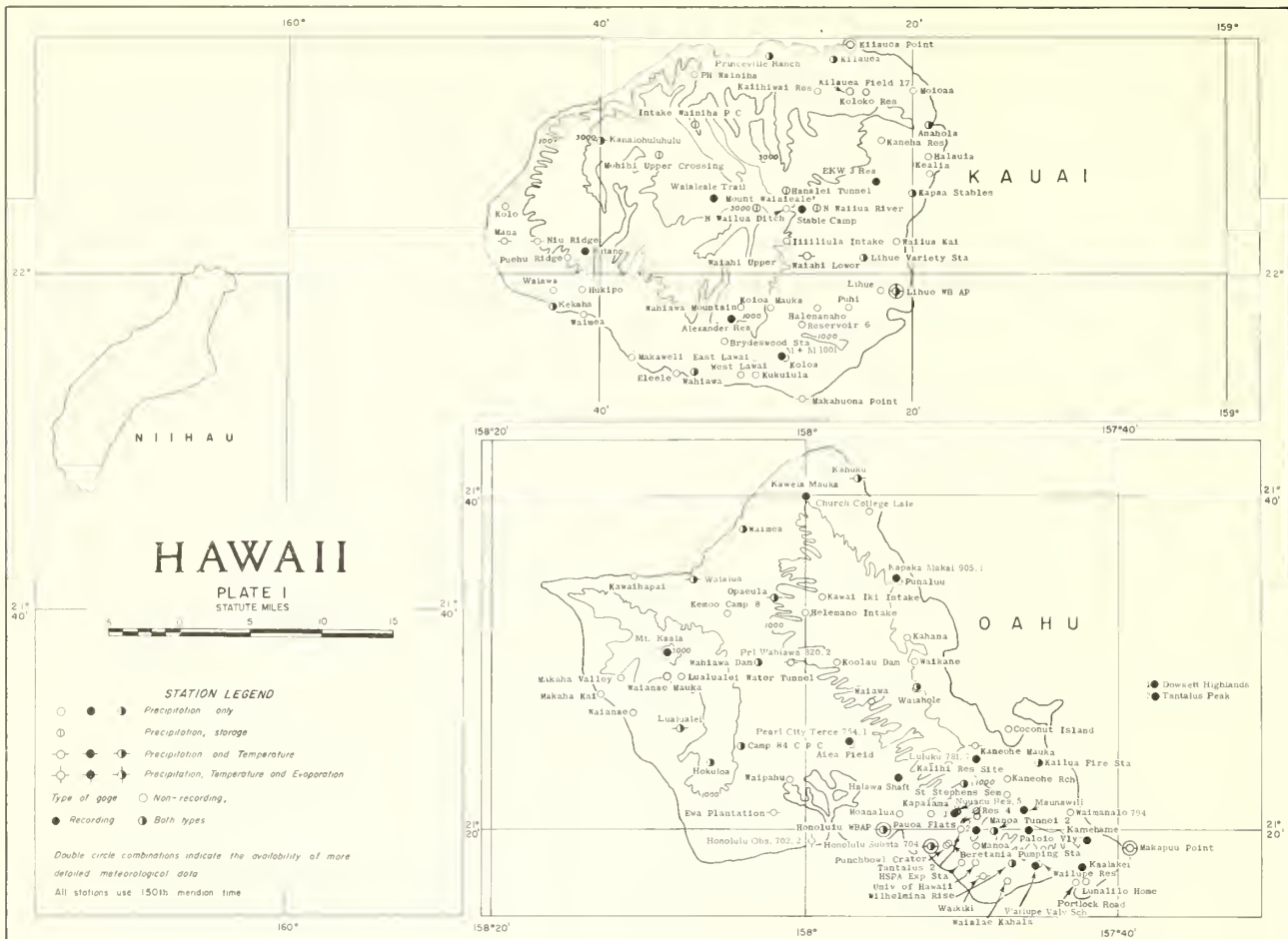
- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

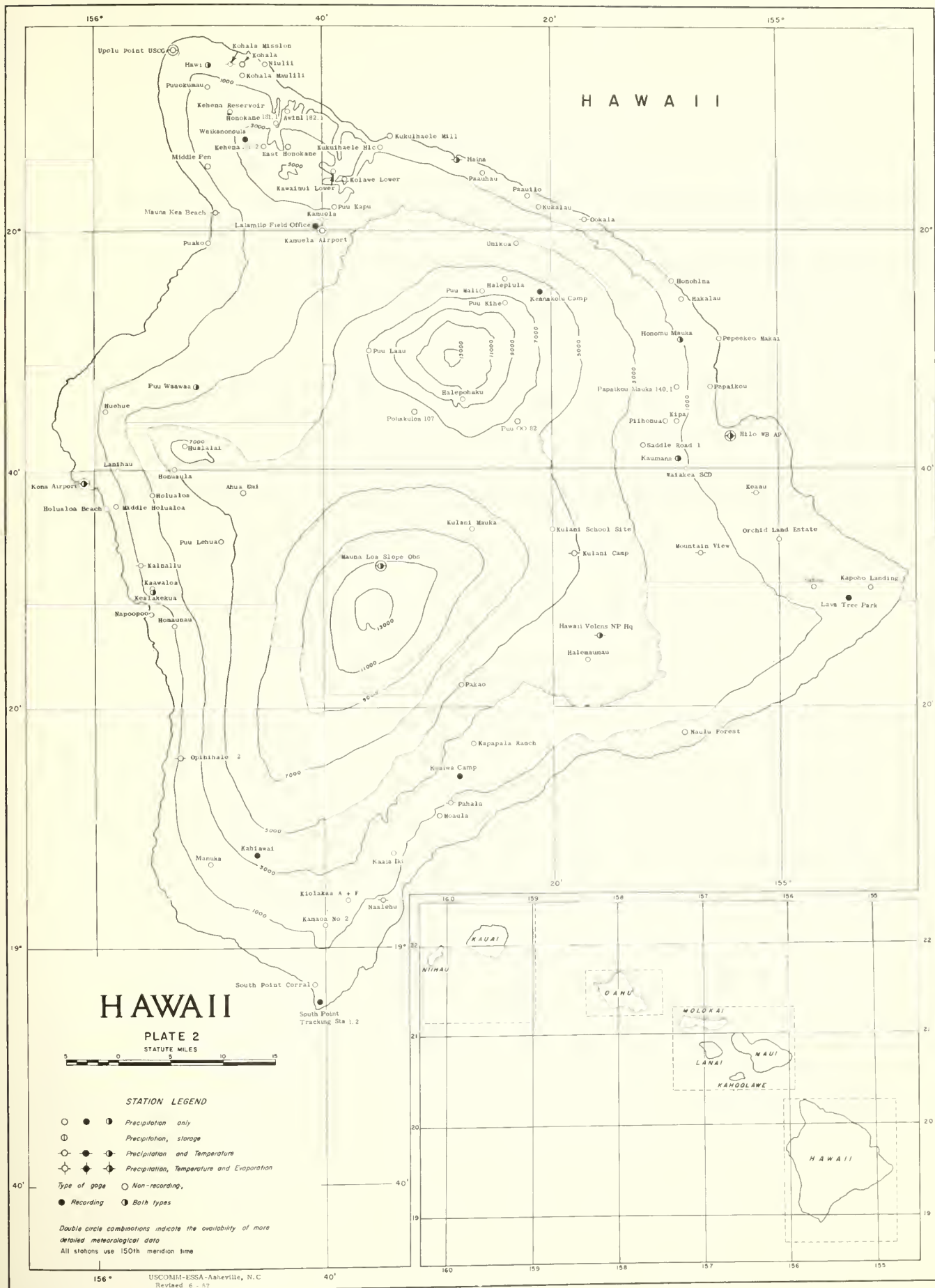
Stations appearing in the Index, but for which data are not listed in the tables, were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, MONTHLY CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.







CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE
ALEXANDER S. TROWBRIDGE, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

SEPTEMBER 1967

Volume 63 No. 9

JAN 12 1968

CLIMATOLOGICAL DATA

Station	Temperature										Precipitation																	
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	No. of Days							
										Max.	Min.	Total	Date								Total	Date	Total	Date	Total	Date	Total	Date
ISLAND OF KAUAI																												
ANAHOLA 1111	A	74.6	55.6	65.1		78 28	46 27		0 0 0 0	1.75	-.37			.0	0													
KANALOHULU 1075	A									1.72		.31	5	.0	0													
KAPAA STABLES 1104	A									2.16				.0	0													
KILAUEA FIELD 17 1135	A									5.30	-.02	1.74	14	.0	0													
KILAUEA POINT 1133		66.9	74.2	80.6		89 29	69 28		0 0 0 0	3.34		.55	13	.0	0													
KOLOA 936	A									3.91	-.47			.0	0													
LIMUE WB AIRPORT	R	84.7	73.2	79.0	-.9	86 11	67 26		0 0 0 0	1.55	-.52	.30	4	.0	0													
MANA 1026		88.1	69.3	78.7	.6	92 22	66 22		9 0 0 0	1.55	-.87	.65	14	.0	0													
N. HAILUA OITCH 1051														.0	0													
PH. HAILUA 1115										5.57	-.20	2.15	14	.0	0													
PUEHU RIDGE 1040										5.82		3.10	14	.0	0													
HAILUA 930	A									2.02	.31			.0	0													
HAILUA LOWER 1054		83.1	68.0	75.6		85 29	64 13		0 0 0 0	8.65		2.39	14	.0	0													
HAILUA 947										.86	.20	.36	6	.0	0													
ISLAND			75.0							3.43				.0	0													
ISLAND OF OAHU																												
HONOLULU OBSERV 702.2	R	90.2	74.5	82.4	3.2	92 17	69 27		23 0 0 0	.43	-.57	.17	27	.0	0													
HONOLULU WBAP 703										.42		.09	14	.0	0													
KAHUKU 912														.0	0													
KANEONE MAUKA 781		84.0	71.7	77.9	1.1	86 24	69 26		0 0 0 0	.91	1.10	1.15	16	.0	0													
KOOLAUA DAM 833										7.55	1.34	1.09	22	.0	0													
LUALUALEI 804										2.99		2.30	14	.0	0													
MAKAPUU POINT 724		81.0	73.5	77.7		84 25	69 14		0 0 0 0	1.75	1.04	.58	2	.0	0													
NUUANU RES 4 783										4.80	-3.73	.72	16	.0	0													
OPAEULA 870		83.3	67.3	75.3	2.1	89 5	64 27		0 0 0 0	2.10	-.34	.45	6	.0	0													
PAOLOLO VALLEY 718										9.40	-.97	4.08	16	.0	0													
PR. HAILUA 820.2		87.3	67.5	77.4		93 4	64 26		2 0 0 0	1.27		.41	15	.0	0													
PUNAHU 884												1.21	14	.0	0													
HAILUA DAM 863										1.30		.42	25	.0	0													
HAILUA 837	A									7.57	-2.12			.0	0													
HAILUA 847	A	87.5	66.7	77.1	.8	91 25	64 27		2 0 0 0	.30	-.49	.12	6	.0	0													
WAIKIKI 717.2		89.7	71.8	80.8		93 4	68 27		16 0 0 0	1.58		.95	16	.0	0													
WAIKANA 750	A									.13	-.95	.07	8	.0	0													
ISLAND			78.4							3.11				.0	0													
ISLAND OF MOLOKAI																												
KUALAHUU 534	A									.84	-.06	.52	15	.0	0													
MAPULEHU 542										1.94	-.66	.35	21	.0	0													
MAUNALO 511										3.75	2.64	1.43	26	.0	0													
MOLOKAI AP 524		84.6	71.3	78.0		86 26	65 26		0 0 0 0	.17		.08	6	.0	0													
ISLAND			78.0							1.68				.0	0													
ISLAND OF LANAI																												
LANAI CITY 672		79.9	65.4	72.7	1.2	83 20	62 3		0 0 0 0	4.05	1.76	1.55	15	.0	0													
ISLAND			72.7							4.05				.0	0													
ISLAND OF MAUI																												
HALEAKALA B E S 434	A									.70	-1.60	.23	8	.0	0													
HALEAKALA RS 338		65.0	46.3	56.0		74 11	40 27		0 0 0 0	1.32		.57	15	.0	0													
MANA AIRPORT		80.1	71.1	78.6		88 8	66 25		0 0 0 0	4.57		.95	5	.0	0													
HONOKOHUA 493	A									1.08	-.60	.16	29	.0	0													
KAHULUI WB AP	R	86.7	68.6	77.7	-.7	90 18	61 26		3 0 0 0	.08	-.17	.03	22	.0	0													
KAILUA 446		81.5	66.9	74.2	-.9	83 18	64 26		0 0 0 0	4.50	-3.00	.78	8	.0	0													
KEANAE 346	A									5.30	-6.93			.0	0													
KIPAHULU 258										4.27	-2.58	.82	8	.0	0													
KULA SANATORIUM 267		73.6	58.4	66.1	-.6	76 11	56 26		0 0 0 0	3.55	1.58	1.52	14	.0	0													
LAMAINA 361		89.2	70.6	80.0		93 29	69 26		11 0 0 0	.41	.12	.25	14	.0	0													
PAIA 406										.27	-1.01	.08	21	.0	0													
HAILUKU 392		88.0	69.0	78.5	.7	89 27	65 25		0 0 0 0	.15	-.45	.05	2	.0	0													
ISLAND			73.0							2.18				.0	0													

See Reference Notes Following Station Index

CLIMATOLOGICAL DATA

HAWAII
SEPTEMBER 1967

CONTINUED

Station	Temperature										Precipitation																
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max. Min.								Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										90° or Above	32° or Below	32° or Below	32° or Below														
ISLAND OF HAWAII																											
HAUNA 214	85.6	67.6	76.6	2.1	88	20+	65	16		0	0	0	0	.51	- 1.78	.12	20	.0	0		1	0	0				
HAWAII VOLCNS NP HO 54	72.4	55.5	64.0	.7	76	5	50	4		0	0	0	0	2.34	- 2.75	.89	10	.0	0		6	1	0				
HILO WB AIRPORT	84.7	69.2	77.0	1.5	86	29+	67	26+		0	0	0	0	6.78	- 1.72	1.18	9	.0	0		16	3	1				
HUEHUE 92A														2.13	- 1.10			.0	0								
KAINALIU 73B	81.1	63.6	72.4		84	7	61	30+		0	0	0	0	6.92	- .68	2.91	24	.0	0		10	3	2				
KAMUELA AIRPORT	76.9	60.3	68.6		80	25+	51	17		0	0	0	0	.15		.10	14	.0	0		1	0	0				
KEAAU 92	85.3	66.7	76.0	1.1	88	25+	65	26+		0	0	0	0	5.84	- 3.21	1.10	7	.0	0		18	3	1				
KEALAKEKUA 26.2	81.4	65.1	73.3		84	7	63	27+		0	0	0	0	6.57		1.96	24	.0	0		10	5	2				
KEHENA RESERVOIR 176.1														1.42				.0	0								
KONA AIRPORT 68.3	85.8	70.7	78.3		87	30+	65	24		0	0	0	0	2.18		.73	24	.0	0		5	2	0				
KUKUIHALE HIC 199														.48	- 2.31	.12	12	.0	0		2	0	0				
KULANI CAMP 79	66.0M	48.9	57.5M		71	6	41	27		0	0	0	0	3.42		.95	10	.0	0		8	2	0				
MAUNA KEA BEACH	89.8	72.9	81.4		96	2	68	1		15	0	0	0	.74		.37	17	.0	0		2	0	0				
PAHALA 21	82.4	64.3	73.4	- .3	85	22+	61	26		0	0	0	0	3.33	.80	1.53	13	.0	0		6	2	1				
POHAKULOA 107														.59				.0	0								
PUAKO 95A														.41		.25	26	.0	0		1	0	0				
PUU WAAWAA 94.1														3.56	- 1.23	2.00	16	.0	0		5	1	1				
UMIKOA 118														1.19	.97	.42	15	.0	0		4	0	0				
WAIKOLA SCO 88.2														6.45				.0	0								
ISLAND			72.6											2.90				.0									

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 96° ON THE 2D AT MAUNA KEA BEACH, HAWAII

LOWEST TEMPERATURE: 32° ON THE 29TH AT HALEAKALA SUMMIT 338.4, MAUI

GREATEST TOTAL PRECIPITATION: 30.30 INCHES AT LUPI UPPER 442, MAUI

LEAST TOTAL PRECIPITATION: .00 INCH AT 2 STATIONS, MAUI

GREATEST ONE-DAY PRECIPITATION: 4.08 INCHES ON THE 16TH AT PALOLO VALLEY
718, OAHU

DAILY PRECIPITATION

HAWAII
SEPTEMBER 1967

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																		
ANAHOLA 1111	A	1.76	.02	*	*		.90	.01	.01	.10	*	*	.16			.22	.02					.12	.04	.02	*	*		.13			.01	*	*	
BRYCESWOOD STA 985	A	3.31	*	*	*	*	.99	.06	.04	.16	*	*	.73	.02		.23	.24	*	*	.08	.15	.05	.05	.04	*	*		.25	.03	.12	.07	*	*	
EAST LAWA 934	A	3.39	.08	*	*	*	.34	.16	.20	.14	*	*	.83	.04	T	.18	.47	*	*	.04	.15	.16	.15	.11	*	*		.22		.10	.02	*	*	
ELEELE 927	A	1.52	*	*	*	*	.61	.02	.03	*	*	*	.60			.04	.09	*	*	.01	.02	.04	*	.02	*	*		.02		T	.02	*	*	
HAULA 1110	A	2.83	*	*	*	*	.15	.21	.06	.12	*	*	.25			.22	.17					.15	.03	.10	*	*		.06	.28	.03		*	*	
HALENAHANO 1006	A	5.58	.02	*	*	*	.75	.27	.11	*	*	.93	.08	.19	.36	1.73	*	*	.31	.15	.21	.13	.06	*	*		.15			.02	.11	*	*	
HUKIPO 945	A	1.03					.30	.17								.56																		
ILILILULA INTAKE 1050	A	8.05	.04	.70	.40	.20	.67	.65	.22	.58	.64	.36	.09	.22	.05	.30	.34	.20	.12	.15	.30	.35	.27	.40	.28	.06	.04	.08	.02		.12	*		
INTAKE WAINIHA PC 1086	A	8.32	*	*	*	*	.23	*	*	.16	.5	*	.72	*	*	1.64	*	*		.14	*	*	.62	*	*		.26	*	*		1.06		.04	*
KALIHIAI RES 1131	A	4.45	*	*	*	*	.125	.17	.27	.13	*	*	.58	.03	.04	.46	.31	*	.05	.16	.13	.08	.09	*	*		.61	.01	.04					
KANALOHULULU 1075	A	1.72		.16	.07		.31		.06	.18	.05	*		.22	.18		.03	.05	.02		.06	.06	.19	*	*		.30			.05	.04	*		
KANEHA RESERVOIR 1092	A	4.24	.05	*	*	*	.116	.20	.12	.35	*	*	.43	.03		.30	.47					.06	.06	.19	*	*		.40	.08	.05	.15	.03	*	
KAPAA STABLES 1104	A	2.16	*	*	*	*	.145	.10				*	.05			.05	.08		*	.08	.11	.06	.06	.13	*	*		.03	.04				*	
KEALIA 1112	A	1.57	.02	*	*	*	.80	.07		.10	*	*	.10			.05	.11					.06	.03	.06	*	*					.04	*	*	
KEKAHA 944	A	.65					.12	.16							.17	.18		.02															*	
KILAUEA 1134	A	3.31	*	*	*	*	.81	.50	.06	.14	*	*	.49	.01	.08	.50	.05	*	.06	.09	.07	.11	.13	*	*		.21						*	
KILAUEA FIELD 17 1135	A	5.30	*	*	*	*	.129	.12	.12	.07	*	*	.50	.06	.05	1.74	.30	*	.11	.02	.14	.08	.03	*	*		.60	.02	.01		.04	*	*	
KILAUEA POINT 1133	A	3.34	.29	.37	.11	.31	.28	.08	.26	.26	.17	*	.01	.03	.55	.01	*	.07	.13	.08	.25	*	*								.01		.09	*
KOLO 1033	A	.69			*	*	.32									.31			.06														*	
KOLOA 936	A	3.91	.10	*	*	*	.73	.21	.06	.20	*	*	.78	.05	.05	.05	.39	*	.06	.17	.27	.16	.05	.20	*	*		.15		.03	.24	.02	*	*
KOLOA MAUKA 994	A	5.45	.05	*	*	*	.89	.46	.09	.18	*	*	.82	.17	.05	.48	1.01	*	.19	.11	.25	.16	.21	*	*		.17				.16	*	*	
KOLOKO RES 1137	A	4.80	*	*	*	*	.159	.25	.07	.13	*	*	.30		.10	1.05	.21	*	.25	.10	.07	.12	.06	*	*		.42	.01					*	
KUKULUA 935	A	1.76	*	*	*	*	.41	.06	.03	.10	*	*	.31			.03	.42	*	.02	.06	.12	.04	.06	*	*		.03			T		.05	*	
LIHUE VARIETY STA	A	.05	*	.71	*	*	.77	.14	.12	.22	.42	*	.02	.02	.04	.62	.59	*	.11	.07	.12	.05	.33	.15	.03				.01		.01		.04	*
LIHUE 1020	A	2.58	.02	*	*	*	.75	.02		.06	*	*	.11	.03	.20	.22	.61	*	.12	.14	.11	.08	.09	*	*								*	
LIHUE WB AIRPORT	R	1.56	.13	.21		.30	.21		.09	T	T		T	T	.24	.02	.01		.08	.03	.12	.06	T				.04		T	T	.02		.02	*
MAKAHUNA POINT	A	1.07		.02	.04	.07	.06	.11		.01	.15	.02	T	.01		.40				.04	.01	.01	.02	.04	.03					.01	.02	.02	*	
MAKAWELL 965	A	2.72	.01	.10		.15			.26						.05				.05	.01		.01								.07	.04	*	*	
MANA 1026	A	1.66		.01		.14	.01								.65	.27	.02	.35												.17			*	
MOHINI UPR CROSS 1083	A	1.84	.26					.53	.40	.13				.13							.13								.13				.13	*
MOLDAA 1145	A	1.54	.01	*	*	*	.92	.05	.03	.05	*	*	.07		.02	.01	.01	*	.02	.02	.07	.01	.01	*	*		.19				.05	*	*	
NIU RIDGE 1035	A	5.10		*	*	*	.71	.09								.23	1.19	.22	*														*	
N WAILUA OITCH 1051	A	.91	*	*	*	*	.192	.15	.21	.36	*	*	1.03	.26		.12	.41	*	.31	.38	.14	.22	.53	*	*		.57	.04					*	
PH WAINIHA 1115	A	5.87	.25	.28		.04	.18	.08	.02	.57	.70	.30	T		2.15	.06	*	.01	.10	.04	.13	.17	.33	.01				.02	.02	T		*	*	
PRINCEVILLE RANCH 1117	A	4.47	.02	.47	.34	.28	.30	.15	.04	.22	.46	.14	.03	.03		1.19	.02		.12	.17	.14	.04	.31										*	
PUEHU RIDGE 1040	A	5.82					.124	.37								3.10	.08	.83	*										.10	.09		.01		*
PUNI 1013	A	4.05	.02	*	*	*	.76	.23	.06	.07	*	*	.53	.07	.18	.06	1.00	*	.30	.20	.16	.15	.10	*	*		.01			.11	.04	*	*	
RESERVOIR 6 1004	A	5.32	.11	*	*	*	.81	.16	.08	.07	*	*	.74	.08	.18	.78	1.01	*	.31	.13	.23	.15	.07	*	*		.08				.24	*	*	
WAILAUA 930	A	4.34	T				.92	T	.05	.13	*	*	.67			.08	.08			.04	.02	.02	*	*									*	
WAILAUA MOUNTAIN 990	A	11.75	*	*	*	*												*	*														11.75	*
WAIJHI LOWER 1054	A	8.65	.15	.44	.36	.17	.71	.32	.21	.32	.49	.08	.07	.02	2.39	.69	.57	.08	.08	.21	.10	.15	.27	.40	.08	.03	.01			.05	.20	*	*	
WAIJHI UPPER 1052	A	8.06	.03	.55	.25	.21	.21	.89	.20	.45	.90	.10	.03	.02	1.52	.57	.25	.03	.38	.20	.16	.37	.35	.07		.05	.02						*	
WAILUA 943	A	.73		*	*		.11	.30								.09	.06		.17														*	
WAILUA KAI 1065	A	2.28	.05	*	*	*	.114	.05		.12	*	*	.31			.17		*	.08	.05		.03	.28										*	
WALMEA 947	A	.86	T	.07		.07	.36			T					.33	.03																	*	*
WEST LAWA 931	A	1.92	.02	*	*	*	.54	.05	.06	.15	*	*	.46	.02		.14	.10	*	.02	.15	.07	.02	.06	*	*		.04			.02	T	*	*	
ISLAND OF OAHU																																		
AIEA FIELD 625 761	A	1.93	*	*	*	*	.17	.10		.15	*	*	.06			.13	.12	.71	.02	.05	.04	.02	.09	.02	.15	*	*	.10		.08	.12	.16		*
BREYERMAN PUMPING STA	A	.91	.01	*	*	*	.11	.02		.40	.07		.03	T		.13	.12	.01	.02	.05	.04	.02	.02	.02	.06		.58	T	.08	.14	.02	.02	*	*
CAMP 84 807	A	.97								.02	.05					.10	.10		.03	.02		.02	.06								.06	.03	*	*
CHURCH COLLEGE LAIE	A	3.59	T				.213	.02		.23	.02				T	.36	.20	.03	.07	.04	.04	.04	.02							.26		.17	*	*
COCONUT ISLAND 840.1	A	5.33			.08	.04	1.11	.01	.02	.04	.05	.01	*	.21	1.43	.56	.03		.16	.03	.08	.37				.83	.05		.18		.04	*	*	
EWA PLANTATION 741	A	.02		T												T			*	T									.01		T		*	
HELEMANU INTAKE 881	A	3.82	*	*	*	*	.95		.06	T	.01	*		.47	*	.57	*																	

HAWAII
SEPTEMBER 1967

Day of Month

See Reference Notes Following Station Index

DAILY PRECIPITATION

Continued

HAWAII
SEPTEMBER 1967

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAMUELA 192.2	.25						.04	.02	.03		.06				.09						.01												
KAMUELA AIRPORT	.15						T				.01	.02			.10	T		.02	T		.01							T	T				
KAPAPALA RANCH 36	2.19					.10	.06	.28	.16					.33	.23	.08		.07		.03	.01							.28	.44	.03	T		
KAPOHO LANDING 935	6.97	*	1.98	*					1.25	*		*	*	*		1.07					*								*	*	*	1.07	*
KAUMANA 88.1	5.83				.20		.35	.72	.33	.30	1.22	.18	.23	.03	.68		.14	.05	.46	.38		.12	.07	.03						.12	.22		
KAWAINUI LOWER 193	7.84	.58	*	*	*	*	*		1.58	*				*	4.88	*											*	*	*	*	.42	*	
KEAAU 92	5.84	.05				.22	1.10	.45	.39	.43	.12	.13		.16	.20	.01	.61	.13	.58	.29	.02	.28	.10	.05	.03				.07	.10	.17	.15	
KEALAKEUA 26.2	6.57	.03	.05	.30		.06	.05	.28	1.25	.09	.02	.06	.51	.57	.36	.02		.04	.20	.03		.51	.12		1.96			.05	.01				
KEHENA 181.2	2.75																																
KEHENA RESERVOIR 176.1	1.42	.04	*	*		.02	.02		.02	*		.42	.04					.05	.03	.03	.23	.02					.04		.04	.03	.05	*	
KIOLAKAA A ? F 6	4.78	*			.28	*	.66	1.22	.88	.30	1.45	.24	.75	.07	.64		.20	*		.72	.33	.02	.29	.13	.14	.03		*	*	*	4.78	*	
KONAHALA 179A	1.41	.01						.01			.19	.01		.39					.25	.05	.29		.01						.07	.16	.03	.13	
KONAHALA MAULILI 176	2.39	.09				.03		.03	*		.49	.01		.05		*		.23	.07	.23								.29		.12	.03	*	
KONAHALA MISSION 175.1	1.52	T				T	.01	.02	.21	T	.03			.27	T			.22	.05		.10	.01	.02					.45	.06	.07	T	*	
KOIAWE LOWER 196	3.04	.27	*	*	*	*		.34	*	*	*	*	*		2.00	*											*	*	*	*	*	*	
KONA AIRPORT 68.3	2.18			T									.18	.14	.65		T		.01		.04	*	.13	*			*	*	*	.30	*		
KUKAIUA 222	1.13	.02						.37	.13		.30			.03		.10	T		.05		.07		T		.73			.42				*	
KUKUIHALE MIC 199	.48							.03	.01		.10			.12		.02				.07		.09								.06	T	*	
KUKUIHALE MILL 206	.50	.02						.07	.02	*		.09	.03	.01			*	*		.02		.19								.04	.05	*	
KULANI CAMP 79	3.42						.30		.05	.45	.95	.02					.85		.15			.30			.05					.10		.20	
KULANI MAUKA 76	1.41	.01						.07	.03	.05																				T		*	
KULANI SCHOOL SITE 78	3.74	.72	*	*	*			.07	.03	.05																		*	*	*	*	*	
LANIKAHU 68 C	3.59	.11	*	*.40	*	.12	.22					.26	.44	.07	.40	.97	*	.21	*											.07		.40	
MAUKA 2	3.72					.12	.35	.22	.02	*	*	.32	1.00	.41	.10	.06			.10	.04		.10	T	*	.22		.60	.27	.04	.03	.04	*	
MAUNA KEA BEACH	.74				.02	.08								.21	.04																	*	
MAUNA LOA SLOPE OBS	1.33				.08	.03						.01		.10	.02	1.10		.37		.01												*	
MIDOLE HUALOALO 68.1	2.00	.25			.20								.16		.64		.29											.45		.01		*	
MIDOLE PEN 147.1	.50	*	*	*																												*	
MOAULA 18	.50	*	*	*																												.50	
MOUNTAIN VIEW 91	7.39	.05			.38	.23	.83	.61	.77	.86	.24	.07	.15	.97	.23	.05	.22	.47	.06	.33	.03	.03	.02					.14	.39	.04	T	.20	
NAALEHU 14	1.40	.01	*	*	.13	.02	T	*		.10	T			.14	.13	.02			.23	.05	T											*	
NAPOPODO 28	6.77											.90	*					1.91														*	
NAULU FOREST 38.6	1.89										.61	.14	.04	T	.30	.07	.46	T	.11	.04		.04	.03					2.09				*	
NIULII 179	1.24						.02					.27	.05		.16			.25	.08		.15							.04	.17	.02	.05	.03	
OKALA 223	2.12	.09				.07	.67	.19	.12	.42		.04	.02		.07	.05	T	.10	.06	.13	T	.09	T	.03	.04				.03	.09	.01	.02	
OPHIHALE 2 24.1	11.16	.50	.77	.01		.02	.72	.01	.65	.05	.04	2.94		.17	1.81				.03	T	.31	1.41	.02	1.39	.05			.02	.02				
ORCHID LAND EST 91.5	7.96	1.71									1.27						1.78																
PAAHAU 217	.50	.01			.01			.06	.16	.04		.09				.05		.01		.05		.05										1.03	
PAAULO 221	.76	T						.35	.15	.16		.02			.01	T		T	T		.07										T	*	
PAHALA 21	3.33				.02		.07		.20			1.53	.23	.04	.06	.22		.02															
PAHOA 65	5.89	.07			.18		.09	.21	.21	.50	.57	.16	.09	.39	.04	.04	.57	.12	.55	.23	.03	.24	.26	.05	.04			.22	.72	.23	.09	.46	.22
PAKAO 37	6.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.00
PAPAIAKU 144A	6.17					.05	1.65	.48	.60	.48	.27	.40	.07	.58		.04	T	.41	.20	.03	.26	.28	.12	.05	.06			.05	.03	.04	.02	*	
PAPAIAKU MAUKA 140.1	8.41	.01			.03	.24	1.78	.69	.87	1.34	.33	.40	.02	.62		.05	T	.46	.62		.24	.24	.10	.01				.13	.08	.10	.05	*	
PEPEEKEO MAKAI 144	4.44	.07				.15	.82	.51	.46	.28	.10	.40	.09	.01		.11		.36	.01		.12	.12	.08						.16	.19	.39	.01	
PIIHONUA 89	10.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
POHAKULOA 107	.59								.23							.36																	*
PUAKO 95A	.41					.02							.02																				*
PUU KINE 120	.23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.04	*	*	*	*	*	*	*	*	*	*	.25	.02	*	*	*
PUU LAU 102.1	1.74	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PUU LEHUA 73	2.26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.74
PUU MALI 113	.86	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.86
PUUKUMAU 167	.02	*	*	*	*	.01	.02					.33				.23			.09	.02	.01	.21	.03	*	*	*		.12	.06	.02	*	*	
PUU OO 82	3.75			.03	.12	.16	.15	.40	.12	.52	.20	.05	.63	.42	.07	.32	.05	.07	.20	.01	.04	.03						.05	.06	.02	.06	.03	*
PUU WAAWAA 94.1	3.56			.08		.28	T				.04	.43	T	.16	T	2.00	.05															*	
SAOLEE ROAD 1 84	8.29	*	1.10	*	*	*			1.73	*						3.50																	*
SOUTH POINT CORRAL 3	1.30									.09																							.60
UMIKOA 118	1.19							.27	.21		.02			.12		.42	.07				.01				.33	*							*
UPOLU POINT USCG 159.2	1.40									T	.05		.04			1.02			.16		.05	.03	.01								.03	.01	*
WAIKAEA SCO 88.2	6.45				.10	.32	.43	.34	*	2.10	.42	.13	.10	.64	*			.32	.76	.18					.30				.02	.04	.15	.10	*

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages - percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150TH MERIDIAN TIME				Trace	01-09	10-49	50-99	100-199	200 and over	Total		
							2 AM	8 AM	2 PM	8 PM									
HILO, HAWAII, WR AIRPORT	23	1.3	6.2	19	NE	20	80	75	68	82	4	7	13	2	1	0	27	48	6.3
HONOLULU, OAHU, WR AIRPORT	6	10.0	11.1	27	NE	09	73	66	50	65	8	11	0	0	0	0	19	65	5.6
KAHULUI, MAUI, WB AIRPORT	4	10.2	11.9	29	NE	09	86	80	59	78	8	4	0	0	0	0	12	85	4.8
LIIHUE, KAUAI, WR AIRPORT	6	10.4	11.9	25	NE	08	86	82	69	81	8	8	6	0	0	0	22	76	6.9

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ISLAND OF KAUAI																																			
KANALOMULUMULU 1075	MAX MIN	77 61	77 61	75 54	78 60	72 59	76 61	74 59	74 58	72 60	77 52	73 55	72 55	72 52	72 56	74 53	74 53	77 50	75 59	73 61	75 58	77 59	76 57	73 48	71 50	73 46	76 46	78 52	74 55	75 58			74.6 55.6		
KILAUEA POINT 1133	MAX MIN	89 72	87 74	87 72	87 73	85 73	85 73	86 74	83 73	85 72	85 76	86 76	88 74	87 72	87 74	87 76	85 76	89 76	88 75	86 75	86 75	87 75	88 75	89 76	89 73	87 69	89 76	89 76	89 74	86 74			86.9 74.2		
LIMUE WB AIRPORT	MAX MIN	85 75	84 72	85 73	83 72	83 74	85 74	85 76	84 76	85 76	84 76	85 74	85 76	84 69	85 70	84 70	85 72	84 74	85 74	85 73	85 74	85 76	85 72	85 70	85 67	85 69	85 69	85 66	85 67	85 70			84.7 73.2		
MAKAHUEA POINT	MAX MIN	87 76	88 74	88 74	89 73	90 74	88 73	87 74	88 77	87 73	87 76	88 72	88 73	88 74	89 71	88 76	88 74	87 73	87 75	87 75	87 75	87 74	89 75	88 73	89 73	89 73	89 72	88 73	88 71	88 75			88.1 73.8		
MANA 1026	MAX MIN	90 70	89 70	89 69	90 72	88 72	87 73	88 68	88 68	87 68	90 71	89 69	88 69	88 70	86 69	85 70	86 70	88 68	87 71	89 70	88 67	90 67	92 70	88 67	88 69	86 69	86 69	89 66	88 66	89 67	88 70			88.1 69.3	
NIU RIDGE 1035	MAX MIN	85 65	83 64	85 65	85 65	84 65	87 70	90 64	85 65	85 65	84 64	90 64	87 70	92 65	84 67	82 68	84 68	86 67	91 66	89 67	89 67	89 67	90 68	91 66	90 65	88 66	82 65	85 65	87 64	88 68	88 68			86.8 66.1	
WAIHAI LOWER 1054	MAX MIN	83 69	83 70	83 67	83 67	81 70	82 69	79 70	82 67	81 70	83 69	84 69	84 69	84 65	83 67	84 70	84 66	83 68	84 68	83 69	82 69	82 69	84 66	83 66	82 70	85 68	85 66	85 66	85 67	84 66	84 66			83.1 68.0	
ISLAND OF OAHU																																			
EWA PLANTATION 741	MAX MIN	90 69	91 73	93 68	88 68	88 71	91 71	90 70	90 72	90 70	91 74	92 70	92 70	88 69	87 70	88 69	87 72	90 68	89 70	90 71	89 71	90 71	89 71	90 70	89 68	88 67	88 67	89 67	87 70	87 68	89 70			89.3 69.9	
HONOLULU WBAP 703	MAX MIN	91 76	89 76	92 72	88 72	91 74	91 77	90 77	92 76	90 75	92 78	91 76	92 75	90 73	87 72	92 73	88 77	92 73	90 74	91 77	90 75	90 76	90 76	88 75	91 72	89 73	90 72	90 69	88 75	90 74	90 75			90.2 74.5	
HONOLULU SUBSTA 704	MAX MIN	85 76	84 76	86 76	86 75	84 76	84 76	85 77	85 74	85 75	85 78	85 77	85 74	86 71	84 70	86 72	84 73	85 73	85 74	85 76	84 76	84 76	86 76	84 75	86 75	86 75	87 74	84 75	84 74	84 76	84 76			84.8 74.9	
KAHUKU 912	MAX MIN	85 75			87 69	84 73	85 75	85 73			85 73	86 76	85 76	86 70	85 69				86 73	86 75	85 74	85 70													
KANEHOE MAUKA 781	MAX MIN	85 70	84 70	84 72	85 71	86 71	84 72	85 72	86 74	83 74	84 73	85 75	85 72	85 71	85 69	83 71	84 72	84 71	81 73	84 73	84 73	84 73	84 72	85 73	85 70	85 69	84 70	85 69	84 72	83 72	80 72			84.0 71.7	
MAKAPUU POINT 724	MAX MIN	81 72	80 72	82 75	83 72	84 76	83 72	82 76	81 73	81 76	80 73	81 71	81 76	83 73	82 69	82 71	79 73	80 71	82 75	82 73	82 75	82 73	82 75	81 73	82 72	84 71	83 74	83 71	82 76	81 73	80 74			81.8 73.5	
OPAEULA 870	MAX MIN	82 67	83 69	82 65	88 71	89 67	80 67	82 68	82 68	80 69	81 69	82 68	84 68	85 67	81 66	83 66	86 67	84 66	81 69	85 68	82 68	83 69	82 67	82 66	84 66	88 65	85 64	82 65	81 64	80 65	80 69			83.3 67.3	
PRI WAHIAWA 820.2	MAX MIN	86 66	88 67	88 67	93 68	90 65	83 68	87 65	87 69	88 71	88 73	87 67	87 67	89 66	89 66	88 66	85 65	88 65	87 69	87 65	85 68	85 68	88 67	88 68	86 64	86 66	88 66	88 66	86 66					87.3 67.5	
WAIALUA 847	MAX MIN	87 64	87 65	87 65	91 66	87 66	84 66	88 66	88 69	86 68	87 68	87 66	89 66	89 68	88 66	88 67	89 66	86 66	86 67	87 68	87 67	87 66	87 66	91 66	89 64	88 64	88 66	87 65	84 66					87.5 66.7	
WAIKIKI 717.2	MAX MIN	89 71	90 72	89 68	93 68	92 70	90 74	90 73	90 72	89 76	91 74	91 73	92 69	89 70	88 70	90 72	88 70	89 74	89 75	89 74	89 75	89 74	89 75	90 71	89 69	90 70	89 68	91 73	89 74	87 73			89.7 71.8		
ISLAND OF MOLOKAI																																			
MOLOKAI RD 524	MAX MIN	85 73	85 71	85 71	86 68	85 68	84 72	84 72	84 72	83 72	84 72	84 74	85 71	85 71	84 69	84 72	84 72	86 73	86 74	85 73	84 72	84 72	84 73	85 73	84 73	85 73	84 68	86 68	84 69	85 72	85 71	83 70			84.6 71.3
ISLAND OF LANAI																																			
LANAI CITY 672	MAX MIN	80 66	80 64	82 62	80 65	79 64	79 67	81 66	80 66	80 65	80 66	79 66	80 66	82 67	79 67	81 66	80 64	79 66	80 65	81 66	83 68	82 64	80 65	78 65	79 64	78 65	79 64	79 65	80 66	80 66			79.9 65.4		
ISLAND OF MAUI																																			
HALEAKALA RS 338	MAX MIN	69 54	67 48	67 45	69 44	68 46	66 47	66 44	63 49	64 44	65 47	74 48	66 43	65 42	63 48	62 45	66 50	69 48	65 45	65 51	67 49	66 49	67 48	63 41	64 41	64 47	66 40	64 42	62 44	65 51			65.6 46.3		
HALEAKALA SUMMIT 338.4	MAX MIN	60 49	57 48	59 45	61 38	55 42	55 44	60 45	54 42	60 40	59 47	62 42	57 42	58 51	57 41	54 48	57 50	59 52	62 42	58 43	56 41	55 39	55 47	57 49	54 40	55 41	55 42	56 39	55 32	57 42			57.4 43.9		
HANA AIRPORT	MAX MIN	86 70	87 69	86 71	86 68	88 72	85 73	86 77	88 76	87 72	86 77	86 77	85 72	86 76	85 72	85 70	87 72	86 71	86 71	87 72	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71			86.1 71.1		
KAHULUI WB AP	MAX MIN	86 72	88 73	86 68	84 65	86 68	87 74	85 73	86 69	85 74	89 72	89 69	87 68	88 65	85 67	88 70	89 67	89 67	89 67	87 63	87 67	85 72	88 72	86 71	83 66	83 62	85 61	87 69	87 71	86 71			86.7 68.6		
KAILUA 446	MAX MIN	82 69	81 66	82 67	81 64	81 64	82 64	81 68	81 68	80 69	81 70	81 68	81 68	83 66	82 67	82 66	82 66	83 68	81 68	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67			81.5 66.9	
KULA SANATORIUM 267	MAX MIN	75 57	75 58	75 57	74 58	73 59	70 61	76 59	75 60	76 59	76 59	75 59	75 59	73 58	72 59	69 51	74 58	72 59	72 59	75 58	74 57	74 58	74 57	74 57	73 57	72 57	73 57	74 57	75 57	71 57			73.8 58.4		
LAHAINA 361	MAX MIN	91 69	89 73	89 69	92 73	90 68	88 71	91 69	91 71	91 71	90 69	91 71	89 70	88 68	85 69	87 72	87 70	89 70	88 71	89 71	89 71	91 71	89 71	89 71	88 71	88 69	88 70	88 71	88 71	88 71			89.2 70.8		
WAILUKU 392	MAX MIN	87 68	86 69	89 70	88 67	89 69	86 71	89 70	86 71	87 71	87 69	89 70	89 70	89 68	87 67	87 69	89 70	89 69	89 69	88 70	88 70	88 69	88 71	88 70	88 69	88 69	88 69	88 69	88 69	88 69			88.0 69.0		

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ISLAND OF HAWAII																																	
HAIRNA 214	MAX	84	85	86	87	86	88	87	82	85	83	85	87	87	86	86	81	86	86	87	88	86	86	86	86	86	87	87	82	86	85	85.6	
	MIN	67	68	67	66	68	69	68	67	69	68	69	68	66	66	67	65	67	71	69	69	67	68	68	67	67	67	67	67	66	70	67.6	
HAWAII VOLCNS NP HQ 54	MAX	72	74	74	75	76	73	74	67	71	73	70	71	72	73	73	69	72	72	70	74	67	74	74	72	75	75	73	72	72	72	72.4	
	MIN	56	54	56	50	57	57	58	56	57	58	59	56	53	55	55	57	57	58	55	56	56	55	56	54	54	53	51	55	56	55	55.5	
HILO WB AIRPORT	MAX	84	85	85	85	85	85	84	85	84	85	85	85	86	85	79	85	85	85	86	85	84	85	84	85	85	86	83	84	86	85	84.7	
	MIN	69	68	72	67	70	72	70	69	71	71	71	69	68	68	70	70	70	69	68	71	69	69	69	67	67	70	68	68	68		69.2	
XAINALIU 73B	MAX	80	81	80	82	81	82	84	81	81	83	80	82	80	79	80	81	80	81	82	83	80	82	83	81	80	77	80	82	83	81	81.1	
	MIN	64	64	64	63	64	65	65	64	64	66	65	64	64	64	64	65	62	63	64	64	65	64	63	61	62	62	62	63	63	61	63.6	
KAMUELA 192.2	MAX	75	75	76	79	85	84	83	75	76	74	78	77	77	78	78	77	80	76	79	77	75	75	76	78	79	78	77	76	78	77.6		
	MIN	61	61	59	54	54	57	60	62	62	63	62	62	59	58	59	55	58	62	62	58	60	60	62	59	56	59	60	61	63		59.6	
KAMUELA AIRPORT	MAX	76	76	76	78	80	77	76	75	76	76	78	77	77	76	77	76	79	78	78	78	76	77	77	78	80	76	75	76	75	76	76.9	
	MIN	59	60	61	61	60	60	60	60	59	64	68	60	58	60	60	60	51	69	60	60	61	59	60	54	60	60	59	60	60	60	60.3	
XEAAU 92	MAX	84	86	86	86	86	85	85	84	86	85	86	84	84	86	85	85	85	84	85	84	84	88	88	88	88	85	86	84	85	85	85.3	
	MIN	66	66	66	66	66	69	69	68	67	67	67	67	67	66	68	68	68	68	65	68	67	67	65	65	65	65	66	66	66	67	66.7	
KEALAKEUA 26.2	MAX	80	82	81	82	82	83	84	81	81	83	81	83	80	81	81	80	82	82	83	81	82	81	80	82	80	80	80	81	83	81	81.4	
	MIN	65	67	64	65	65	67	65	66	66	67	66	66	65	65	65	66	63	64	66	65	67	66	64	63	64	64	63	65	64	64	65.1	
XOHALA MISSION 175.1	MAX	82	83	84	84	85	84	85	83	84	80	84	84	84	84	85	82	84	84	83	84	82	83	83	84	84	85	83	82	82	82	83.4	
	MIN	71	71	70	67	68	71	70	71	70	71	72	70	69	68	68	68	71	69	70	71	69	71	70	68	67	69	69	70	69	69	69.6	
KONA AIRPORT 68.3	MAX	86	86	86	86	87	87	86	87	87	86	87	87	83	86	85	85	87	86	85	86	85	86	87	87	85	84	83	84	86	87	85.8	
	MIN	70	70	71	71	72	68	72	73	73	72	73	71	71	72	72	72	71	72	72	72	71	71	72	69	65	70	66	70	70	70	70.7	
KULANI CAMP 79	MAX	67	57	60	67	66	71	65		67	67	65	67	68	61	68	67	64	68	66	67	67	68	67	69	67	67	68	63	65	65	66.0	
	MIN	54	46	48	46	50	50	50	54	49	54	52	50	47	52	49	52	52	48	49	47	47	48	46	47	47	44	41	50	50	47	48.9	
MAUNA XEA BEACH	MAX	95	96	89	90	91	90	89	91	90	90	90	90	88	87	88	87	89	88	89	91	95	90	88	89	88	88	87	89	90	92	89.8	
	MIN	68	74	73	72	73	73	74	75	74	69	75	75	72	72	73	74	73	75	73	72	72	72	72	72	70	70	72	75	80	74	72.9	
MAUNA LOA SLOPE OBS	MAX	61	61	57	55	54	52	55	55	58	60	61	59	55	50	48	50	58	58	57	59	59	57	53	52	54	57	59	60	60	60	56.5	
	MIN	43	44	42	38	39	39	38	43	41	42	40	39	38	34	39	39	39	38	37	38	39	38	35	33	35	34	39	36	43	41	38.8	
MOUNTAIN VIEW 91	MAX	81	83	84	84	83	79	81	78	78	80	79	79	82	80	80	78	82	81	76	82	78	80	82	78	83	83	83	81	77	79	80.5	
	MIN	61	59	58	59	58	61	64	62	61	64	65	63	60	59	63	62	63	64	60	60	61	60	60	58	57	58	57	60	60	60	60.6	
NAALEHU 14	MAX	83	83	83	83	83	84	83	84	84	84	84	82	82	83	83	83	83	83	81	83	82	84	84	84	85	83	83	83	83	83	83.2	
	MIN	68	68	68	67	67	68	71	70	70	70	70	69	69	68	70	70	69	69	69	70	69	70	70	70	66	66	69	69	69	68	68.9	
OOXALA 223	MAX	84	85	84	86	85	86	86	83	85	82	84	83	85	84	84	81	85	85	83	84	86	84	85	86	85	87	87	84	87	85	84.7	
	MIN	70	70	69	68	70	70	69	70	70	71	71	70	69	69	69	71	70	70	70	72	70	70	71	68	68	69	69	70	69	69	69.7	
OPIHIHALE 2 24.1	MAX	84	80	82	78	84	85	85	79	84	83	80	80	75	78	78	79	71	80	78	79	82	80	83	80	77	78	80	82	81	80	80.2	
	MIN	62	65	65	63	63	64	64	65	65	64	65	66	64	64	65	67	64	64	63	62	64	63	60	63	64	60	60	61	63	60	63.4	
PAHALA 21	MAX	84	85	84	84	84	82	84	79	82	85	81	82	82	81	81	79	83	82	81	82	81	85	84	83	84	81	82	81	83	82	82.4	
	MIN	65	63	63	62	65	66	66	66	66	70	65	65	64	63	65	65	65	66	65	65	66	63	62	62	62	61	62	64	64	64	64.3	
UPOLU POINT USCG 159.2	MAX	86	85	86	85	86	86	86	85	85	85	86	86	87	86	88	83	86	85	86	85	88	86	86	85	85	87	83	83	85	84	85.5	
	MIN	74	74	72	72	73	74	72	73	73	75	72	72	72	71	71	73	72	71	74	72	72	73	71	70	71	70	72	73	74	72.3	72.3	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WB AIRPORT	EVAP	.46	.29	.24	.36	.25	.32	.41	.30	.30	.39	.33	.34	.41	.31	.30	.27	.19	.34	.31	.35	.34	.31	.36	.34	.30	.27	.30	.39	.32	.39	9.79	
	WIND	154	129	89	108	70	113	181	198	196	218	152	115	99	66	61	72	73	99	121	156	216	163	148	97	57	62	91	138	145	127	371.4	
	MAX	92	92	92	94	94	90	92	88	85	90	86	93	92	92	95	93	94	93	92	91	90	87	90	91	94	95	94	92	91	90	91.5	
	MIN	71	71	71	72	72	72	71	71	70	71	71	71	69	70	70	70	71	71	71	71	70	71	71	70	68	66	68	68	71	71	70.4	
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.39	.39	.38	.34	.35	.27	.36	.40	.39	.43	.33	.34	.25	.28	.26	.23	.17	.29	.25	.34	.33	.29	.30	.32	.30	.27	.18	.27	.25	.29	9.24	
	WIND	46	46	31	24	24	28	38	63	53	62	68	45	32	25	37	26	31	13	32	38	40	39	34	37	19	32	23	16	33	28	39	1020
	MAX	95	96	95	99	99	92	96	95	96	96	92	97	92	93	97	92	89	94	95	94	94	93	94	94	96	96	90	91	90	92	94.1	
	MIN	70	71	70	73	74	72	71	72	72	72	72	73	73	72	73	73	72	72	73	73	72	72	73	71	73	71	70	70	70	72	71.9	
* * * ISLAND OF HAWAII																																	
HILO WB AIRPORT	EVAP	.29	.29	.13	.31	.13	.15	.05	.16	.08	.20	.18	.26	.29	.23	.05	.20	.24	.13	.29	.22	.21	.28	.23	.27	.30	.24	.15	.17	.23	.05	6.00	
	WIND	64	63	52	62	57	61	63	53	62	59	66	51	88	92	46	53	57	58	65	64	62	60	66	61	63	57	75	60	62	49	1861	
	MAX	93	93	92	93	91	91	83	87	88	85	90	91	88	87	76	88	82	87	93	88	92	93	90	93	91	89	84	87	88	85	89.0	
	MIN	68	67	69	66	68	71	70	68	69	71	71	69	67	67	68	68	69	70	66	69	67	68	69	63	66	67	68	66	66	66	67.6	

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STATION INDEX

HAWAII
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CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII												
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1520	6A	6A			PUNA SUGAR CO
MAALEHU 14	6588	03	KAU	3	19 04	155 35	678	8A	8A			HUTCHINSON SUGAR CO
NADOPPOO 28	6697	04	S. KONA	4	19 28	155 55	395	7A	7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6791	02	PUNA	2	19 19	155 08	1400	VAR				HAWAII VOLCANOES NAT PK
NIHILI 179	6808	01	N. KOHALA	1	20 14	155 45	75	6A				KOHALA SUGAR CO
DOKALA 223	7131	02	N. HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPHIHALA 2 24.1	7186	04	S. KONA	4	19 18	155 53	1270	7A	7A			MISS S. CLEMOND
ORCHID LAND EST 91.5	7185	02	PUNA	2	19 34	155 00	445	VAR				BOARD OF WATER SUPPLY
PAUHAU 217	7204	01	HAWAIIA	1	20 05	155 26	415	7A	7A			PAUHAU SUGAR CO
PAUULO 221	7312	01	HAWAIIA	1	20 03	155 22	800	7A	7A			HAWAIIA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	8A			HAWAIIAN AGR CO
PAHOA 65	7457	02	PUNA	2	19 30	155 57	670	6A	6A			PUNA SUGAR COMPANY
PAKAO 37	7643	03	KAU	3	19 22	155 28	5000	MO				HAWAIIAN RANCH CO. INC.
PAPAIOU 144A	7711	02	S. HILO	2	19 47	155 06	200	7A	7A			MAUNA KEA SUGAR CO.
PAPAIOU MAUKA 140.1	7721	02	S. HILO	2	19 47	155 08	1270	7A	7A			MAUNA KEA SUGAR CO.
PEPEKEO MAKA 144	8000	02	S. HILO	2	19 51	155 05	100	7A	7A			PEPEKEO SUGAR CO
PIKUNUA 89	8051	02	S. HILO	2	19 44	155 10	1730	MO				STATE DIV OF FORESTRY
POHAUOLA 107	A 8063	02	HAWAIIA	1	19 45	155 32	4311	VAR				STATE DIVISION OF PARKS
PUAK 95A	8186	05	KOHALA	5	19 59	155 50	5	6A				WILLIAM PAYNE

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII												
PUU KIME 120	A 8393	01	HAWAIIA	1	19 54	155 24	7750	MO				KUKAIAU RANCH CO
PUU LAU 102.1	A 8452	05	HAWAIIA	5	19 50	155 36	7440	MO				STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04	N. KONA	4	19 34	155 49	4850	MO				GREENWELL RANCH
PUU MALI 113	A 8515	01	HAWAIIA	1	19 55	155 26	6960	MO				KUKAIAU RANCH CO
PUU KUMU 187	8548	01	N. KOHALA	1	20 12	155 50	1800	7A				KOHALA DITCH CO LTD
PUU OO 82	8550	02	S. HILO	2	19 44	155 23	6340	6A				W. H. SHIPMAN, LTD
PUU WAHAA 94.1	8555	05	N. KONA	5	19 47	155 51	2520	7A				DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S. HILO	2	19 42	155 12	2360	MO				GUARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8679	03	KAU	3	18 57	155 41	400	WI				HUTCHINSON SUGAR CO
5 POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	305					FEDERAL ELECTRIC CORP
URIKOA 118	8780	01	HAWAIIA	1	19 59	155 23	3420	7A				KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N. KOHALA	1	20 15	155 53	1	8A				U. S. COAST GUARD
WAIKAE SCD 88.2	9025	02	S. HILO	2	19 40	155 08	1050	7A				SHINICHI KANESHIRO
WAIKANOUNLA 178.6	9350	01	N. KOHALA	1	20 08	155 47	3830					KAHUA RANCH

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "MONTHLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind direction and speed divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. "W" and "W" in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shows following station name in "Climatological Data" table, "Daily Precipitation" table; and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly, usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above and covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

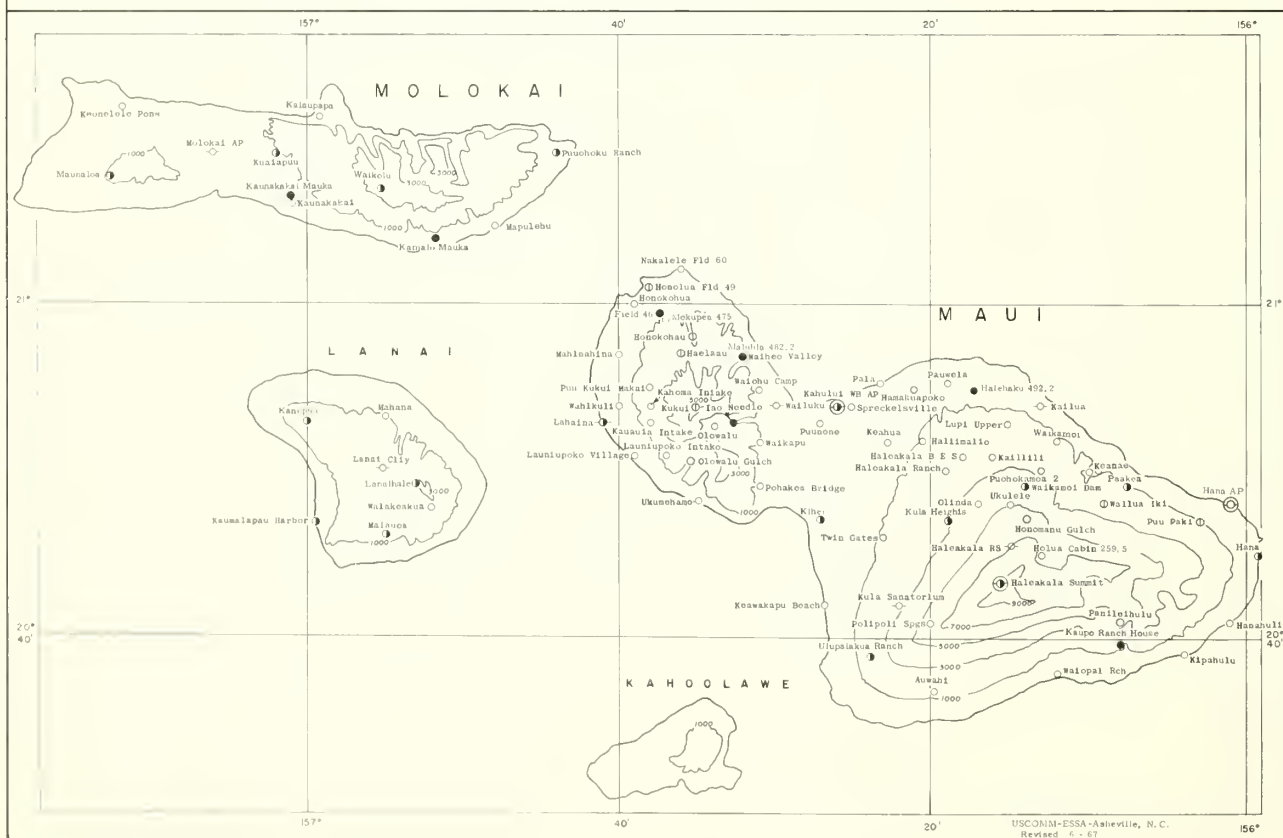
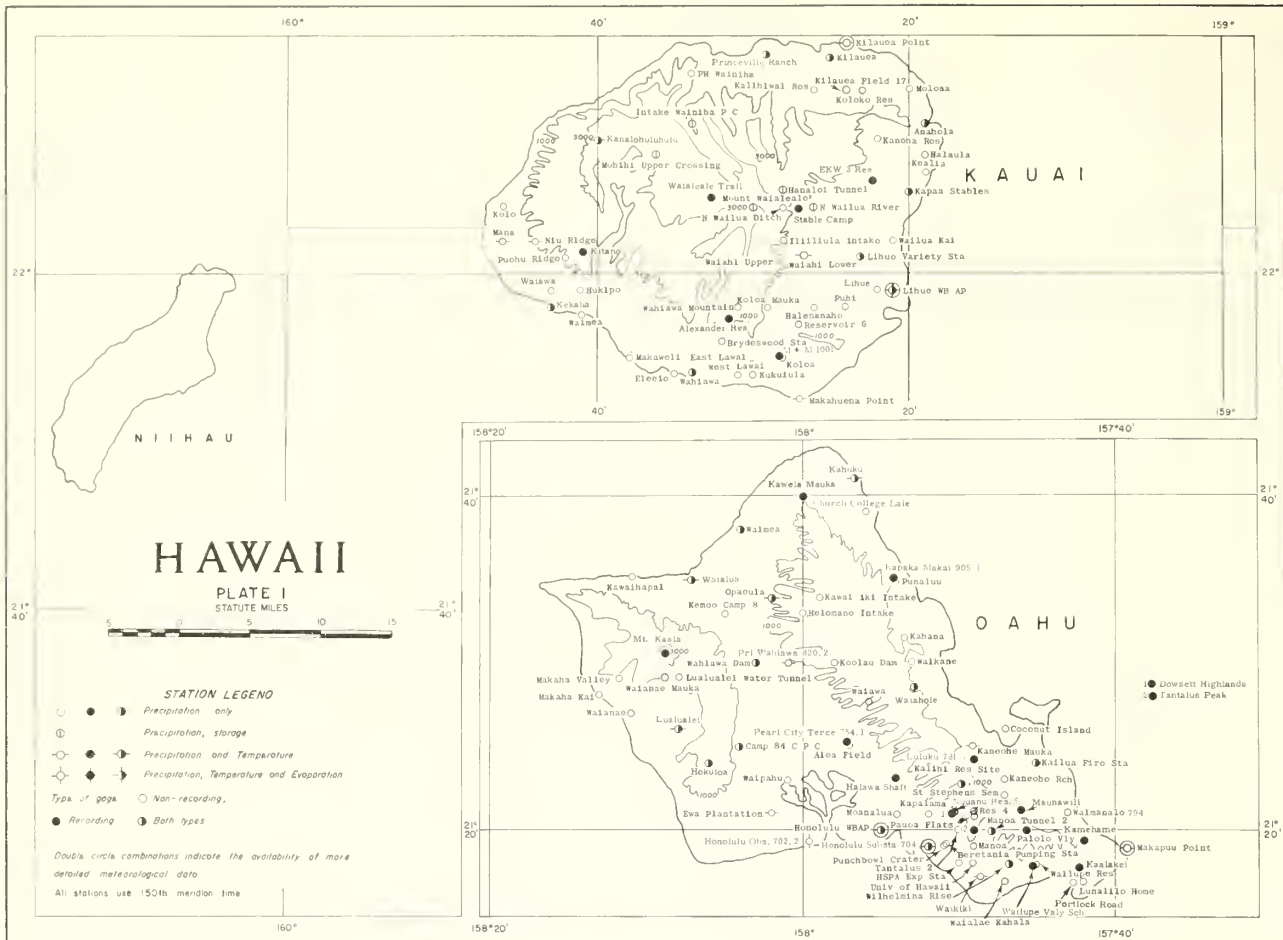
Stations appearing in the Index, but for which data are not listed in the tables, were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, MONTHLY CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and Annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCWB-ESSA-ASHEVILLE-1/2/68-890



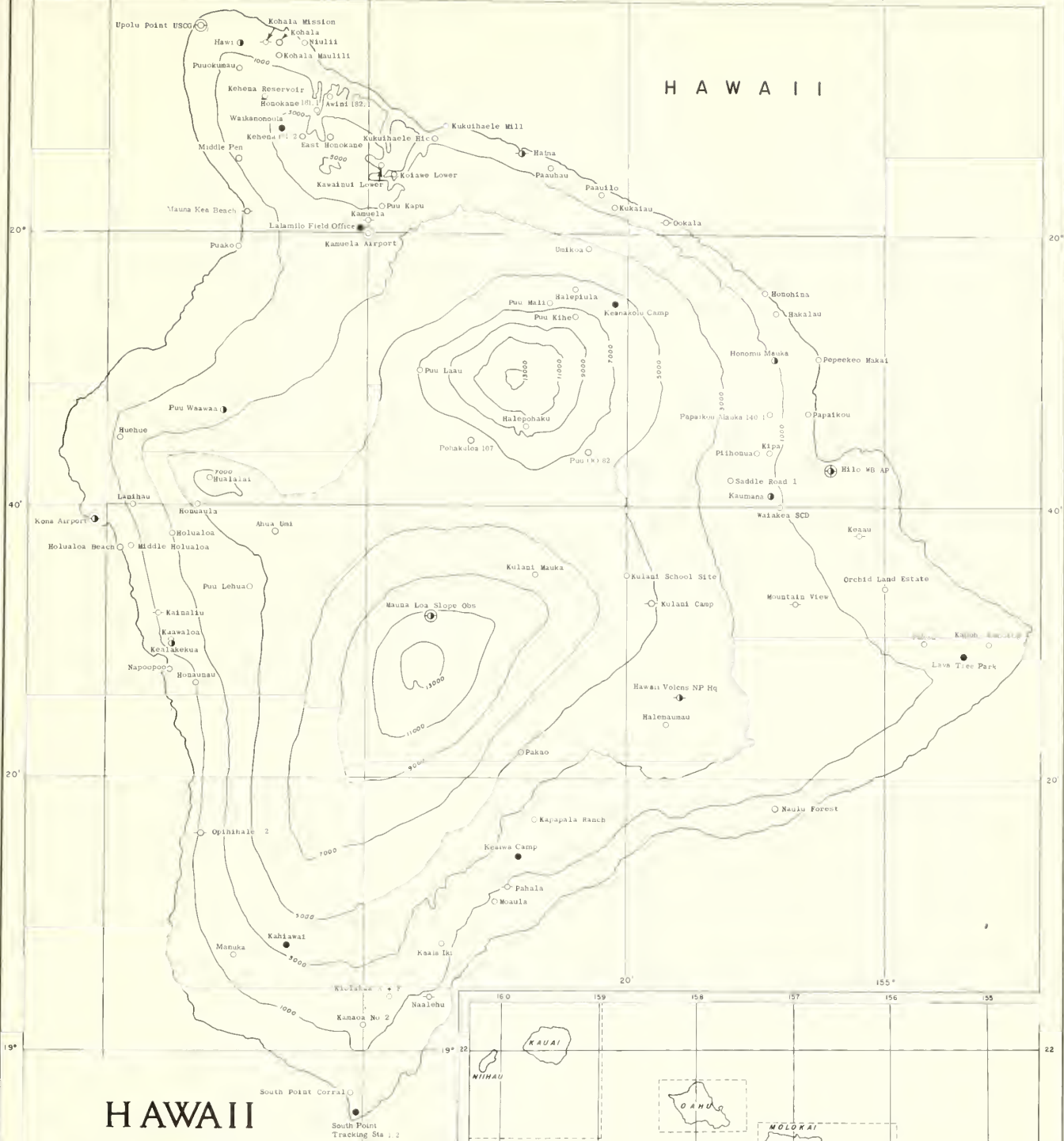
156°

40'

20'

155°

HAWAII



HAWAII

PLATE 2

STATUTE MILES



STATION LEGEND

- ● ① Precipitation only
- ① Precipitation, storage
- ● ① Precipitation and Temperature
- ● ① Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording,
- Recording ① Both types

Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time

156°

USCOMH-ESSA-Asheville, N.C.

Revised 8-7-67

40'

160

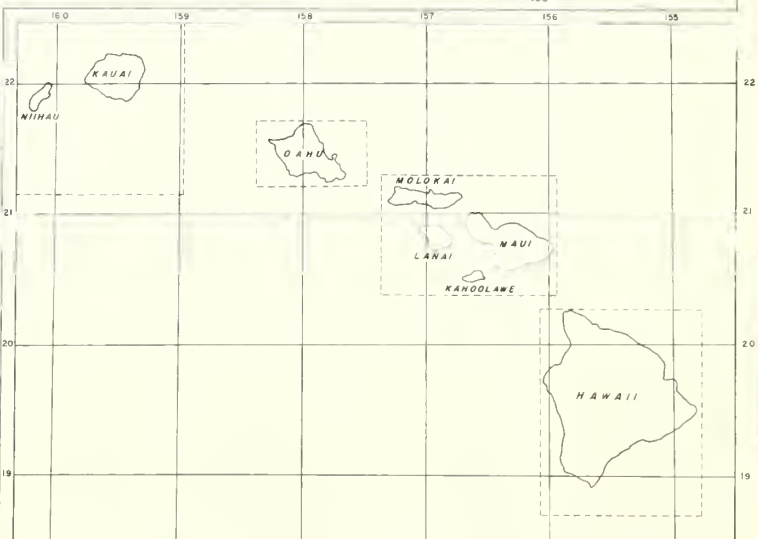
159

158

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156

155





CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE

ALEXANDER B. TROWBRIDGE, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

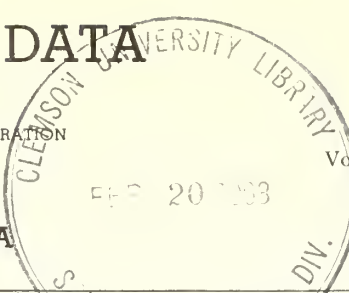
ENVIRONMENTAL DATA SERVICE

HAWAII

OCTOBER 1967

Volume 63 No. 10

CLIMATOLOGICAL DATA



Station		Temperature										Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Total	Snow, Sleet	Max. Depth on Ground	No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
										Max	Min.	60° or Above	50° or Above								40° or Above	30° or Above	.10 or More	.50 or More	1.00 or More																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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CLIMATOLOGICAL DATA

HAWAII
OCTOBER 1967

CONTINUED

Temperature										Precipitation												
Station	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
									Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
									90° or Above	80° or Below	70° or Below	60° or Below										
ISLAND OF HAWAII																						
MAINA 214	84.2	67.0	75.6	1.6	88	3	64	5	0	0	0	0	2.26	- 2.99	1.55	31	.0	0		3	1	1
HAWAII VOLCNS NP HQ 54	71.7	55.2	63.5	.6	77	9+	49	16	0	0	0	0	3.71	- 3.17	.96	13	.0	0		10	1	0
MILO WB AIRPORT	84.9	69.5	77.2	2.1	90	4	64	8	1	0	0	0	10.08	- .72	3.67	31	.0	0		14	7	2
MUEHUE 92A													4.26	.67			.0	0				
KAINALIU 73B	81.2	62.4	71.8		85	13	59	8	0	0	0	0	3.50	- 2.70	1.46	25	.0	0		6	2	2
KAMUELA AIRPORT	76.4	57.6	67.0		80	9+	50	10	0	0	0	0	2.57		.83	31	.0	0		5	2	0
KEAAU 92	85.5	66.3	75.9	1.5	88	24	64	16+	0	0	0	0	7.50	- 4.88	1.72	21	.0	0		15	4	2
KEALAKEKUA 26.2	81.6	64.6	73.1		84	24+	62	15+	0	0	0	0	6.22		1.94	14	.0	0		10	3	2
KEHENA RESERVOIR 176.1													4.09				.0	0				
KONA AIRPORT 68.3	85.1	67.8	76.5		87	24+	64	27+	0	0	0	0	1.31		.57	25	.0	0		4	1	0
KUKUIHAELE HIC 199													2.26	- 3.68	1.40	31	.0	0		5	1	1
KULANI CAMP 79	67.1M	47.9M	57.5M		72	6	41	9	0	0	0	0	1.32		.70	21	.0	0		1	0	
MAUNA KEA BEACH	88.6	72.3	80.5		94	22	67	10	11	0	0	0	1.97		1.21	15	.0	0		3	1	1
PAHALA 21	82.5	64.7	73.6	.4	88	26	61	6+	0	0	0	0	3.80	- .21	1.08	8	.0	0		9	2	1
POHAKULOA 107													1.33				.0	0				0
PUAKO 95A													1.13		.50	15	.0	0		3	1	0
PUU HAAWAA 94.1													5.13	2.25	3.21	14	.0	0		5	3	1
UMIKUA 118													1.32	- 3.63	.95	31	.0	0		3	1	0
WAIKAEA SCO 88.2													8.96		1.97	13	.0	0		16	6	2
ISLAND			72.0										3.83				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 94° ON THE 220 AT MAUNA KEA BEACH, HAWAII

LOWEST TEMPERATURE: 34° ON THE 24TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 24.55 INCHES AT KAHANA 883, OAHU

LEAST TOTAL PRECIPITATION: .07 INCH AT KIHU 311, MAUI

GREATEST ONE-DAY PRECIPITATION: 4.35 INCHES ON THE 19TH AT WAIKAEA 837, OAHU

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

The major feature of this month's weather was the ending of the protracted dry weather which had affected the northern and eastern sections of Hawaii Island, from Kohala to the Puna District. The lack of rainfall in these areas, which are subject to recurrent drought, first became troublesome during September, when virtually every station along the Kohala-Hamakua coast recorded less than half its monthly mean, and many less than one-fourth. Dry weather continued through October with only slight respite from occasional, scattered light rains. Again, Kohala-Hamakua received well under half the average rainfall for the month, and the Hilo and Puna areas were below normal.

In the Honokaa area, the last significant rainfall had been on August 8, when 1.38 inches of rain fell.

Irrigation restrictions were put into effect in the Waimea area on October 10, and some ranchers began trucking in their water. The Puna district was declared an emergency area on the 12th, but some rain on the 13th temporarily alleviated conditions. By the 17th, however, the area was as dry as it had been the previous week, and it became necessary for some residents in the Glenwood and volcano areas to begin hauling water.

The lower Hamakua ditch system was at only two-thirds its normal flow, while the water shortage in the Kohala Ditch irrigation area was termed "the worst since the severe 1962-

1963 drought." Hardest hit by the dry weather were the unirrigated upland sugarcane fields of the Hamakua coast plantations.

Heavy showers at mid-month alleviated conditions in Puna, and steady, gentle rains, totalling up to 2 inches in 24 hours along the Hamakua coast and in the Waimea and Kohala areas on the 30th and 31st, appeared finally to have broken the severe dry spell.

Several other weather events of interest occurred during the month.

On the 10th and 11th, high surf, generated by a storm in the Gulf of Alaska, swept onto the north shore of all islands except Hawaii, but no damage was reported.

Heavy rains of nearly 2 inches in 1-1/2 hours in the North Kona area of Hawaii Island during the afternoon of the 13th, washed out a 30-foot section of the Mamalahoa Highway near Keopu and a small section of Hookena Beach Road. On the afternoon of the 24th, heavy rains again fell on North Kona. A gage at Kealakekua reported 1 inch of rain in 15 minutes and 1.70 inches in 30 minutes, the latter having a recurrence interval of 50 years in that area. A section of the Belt Highway at Alae was washed out.

During the evenings of the 18th and 19th, a light snow mantled Mauna Kea and Mauna Loa on Hawaii Island down to the 10,000-foot level.

Saul Price
Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
OCTOBER 1967

	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
A	1.91	*	.26	.09						.20	.01	.15		.02	*	*		.12		.01	.02	.03	*	*	.03	.01		.05	*	*	.67	.07	
A	3.97	*	.64	.48	.05	.01	.01	*		.33	.08	.08	.02	.05	*	*		.01	.01	.05	1.15	.50	*	*	.33	.03		.01	.05	*	.06	.02	
A	3.83	*	.85	.23	.27	T	.07	*		.47	.14	.10	.08	.10							.46	.45	*	*	.27	.09	T	.02	.09	*	.10	.04	
A	1.84	*	.56	.26	T				*	.10	.04										.61	.10	*	*	.15				.10	*	.02		
A	2.90	*	.30	.07	.11		.17	*		.20	.21	.14		.07						.09	.37	.39	*	*	.03	.05		.19	*	.19	.32	*	
A	4.61	*	.86	.38	.24	.16	.40	*		.59	.19	.21	.06	.15	*	*		.06		.03	.19	.17	*	*	.36	.04	.02	.19	.18	*	.07	.06	
A	1.83		.20		.41																.38	.63									.21	.07	
A	12.64	.58	1.05	.51	.47	.35	.02	.50	.90		.62	.50	.03	.42	.05	.05				.10	1.12	2.10	.80	.21	.07	.32	.08	.04	.23	.84	.50	.16	
A	9.89	*	1.33	*	*	.37	*	*		.63	*	.49	*	.41	*	*		.35	*	*	.30	*	*	*	.65	*	.20	.19	*	1.97	*	*	
A	5.53	*	.82	.39	.17	.05	.03	*		.62	.29	.22	.01	.36	*	*		.21	.01	.09	.29	.48	*	*	.63	.28	.01	.03	.08	*	.35	.11	
A	3.54	*	.05	.09		.17	.04	.05	.10		.11	.04	.03		.14			.28	.04	.44	.10	.02			.17					1.62	.05	*	
A	4.65	*	.67	.21	.20	.20	.08	*		.60	.19	.28		.28	*	*		.05	.12	.07	.45	*	*	.10	.07			.24	T	*	.68	.16	
A	2.89	*	.40	.37			.15	*		.18	.10	.18	.01	.20	*	*		.05		.20	.16	*	*	.40	.03			.02	.08	*	.30	.06	
A	2.03	*	.21	.08	.05		.09	*		.17	.14	.20		.04	*	*				.16	.21	*	*	.03	.02		.02	.18	*	.23	.20	*	
A	1.64		.02		.34														.54	.40				.10					.02	.22	*	*	
A	3.41	*	.55	.08	.12	.17	.01	*		.36	.08	.10		.05	*	*		.08		.07	.17	.38	*	*	.32	.01		.19	*	*	.66	.01	
A	4.70	*	.92	.32	.02	.03	.02	*		.51	.11	.11	.01	.41	*	*		.36	.01	.13	.08	.35	*	*	.46	.02	.01	.01	.12	*	.58	.11	
A	2.69	.45	.06	.16				.20			.07	.11	.05						.74	.42	.11	.05	*	.13		.10	.06	.01	.20	.50		.01	
A	1.89	*	.65	.27	.25	.06	.10	*		.70	.10	.07	.03	.10	*	*		.02	.05	.48	.41	*	*	.17	.05		.02	.05	*	*	1.10	*	
A	6.39	*	1.48	.41	.57	.08	.21	*		.58	.18	.08	.14	.14	*	*		.17		.71	.61	*	*	.52	.03	.01	.12	.11	*	*	.21	.03	
A	5.00	*	.82	.30	.03	.09	.07	*		.67	.08	.17	.01	.18	*	*		.63		.08	.07	.58	*	*	.39	.02		.01	.12	*	1.06	.02	
A	2.13	*	.20	.29	.11	T	.03	*		.34	.09	.05	.01	.05				.43		.02	.33	.20	*	*	.08	.33					.07	*	
A	10.39	.15	.75	.03	.13	*	.50	*	.20	.28	.09	.12	.05	.03	*	*		.33		.02	.33	.20	.31	*	.06	.18	.03	.10	.31	.11	.21	.70	
A	3.28	*	.61	.03	.05	.26	.67	*		.22	.14	.09	.05	.03	*	*		.09		.03	.20	.06	*	*	.09	.02		.03	.11	*	.68	.02	
P	1.85	.15	.12		T	.02	.62	.07	.03	.11	.12		.05					.01	T	.01	.22	.04	.03	.02	.01		T	.02	.06	.02	.08	.02	
A	1.17	.10	.02	.08	T	.02	.12		.32	.06	.12	.01		.01	T			.01		.01	.07	.09	.06	.02	.01		T	.02	.06	.02	.08	.02	
A	1.21	.17	.09						.04											.81											.05	*	
A	.81		.75		.13								.13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
A	2.57	*	.58	.05		.05	*	*	.20	.08	.18		.12	*	*			.05		.01	.02	.22	*	*	.13	.01		.05	*	*	.81	.01	
A	1.07				.06																.17	.04	*	*	.34	.07					.39	*	
A	V22.53	*	1.04	.67	.62	.22	.26	*	*	1.78	.82	.29	.07	.09	*	*		.07		.30	1.17	1.91	*	*	1.51	.22			.34	*	1.87	.51	
A	6.12	.35	.32	.17	.11	T		.68	T	.24	.10	.04	.46	.13	.10			.04	.13	.30	.09	.72	.22	.11	.30	.02	T	.04	.11	.04	1.28	.36	
A	5.38	.14	.76	.33	.10	.01		.59	.04	.03	.08	.04						.04			.22	.50	.14	.08	.07	.04		.04	.07	.82	.02	.03	.27
A	2.43	*	.01		.10	.45	*	*		.38	.15	.11	.01	.20	*	*		.08	.09	.01	.11	.20	*	*	.15	.09	.01	.15	.11	*	.38	.33	
A	4.15	*	.78	.13	.12	.19	.56	*	*	.38	.15	.11	.01	.20	*	*		.08	.09	.01	.11	.20	*	*	.15	.09	.01	.15	.11	*	.38	.33	
A	5.13	*	1.09	.09	.15	.04	.47	*		.68	.08	.21	.12	.03	*	*		.23		.03	.62	.26	*	*	.34	.04	.01	.12	.25	*	.25	.02	
A	2.02	*	.36	.26	.02				*	.25	.11	.02	T							.55	.16	*	*	.11	.13						.05	*	
A	8.13	*																													.81	.3	
A	10.44	.35	.75	.48	.44	.18	.53	.60	.35	.42	.30	.07	.48					.02	.05	.02	.55	1.86	.81	.15	.02	.32	.06	.06	.32	.31	.66	.33	
A	10.77	.34	.80	.77	.50	.30	.02	.65	.35	.55	.27	.13	.07					.02	.05	.02	1.36	1.98	.77	.08	.35	.10	.05	.18	.42	.54	.23	*	
A	.75		.02		.17															.05	.20				.35					.03	.23	*	
A	3.71	*	.38	.11	.04	.55	.24	*	.25	.10	.04		.05	*	*			.09		.18	.51	*	*	.31	.21		.06	.03	*	.07	.23	*	
A	2.53		.09	T															1.18	.37	.04	*	*							.07	.23	*	
A	2.80	*	.26	.19	.05	T		*	.68	.05	.03	.02	.02								.36	.23	*	*	.11	.74						.06	*
ISLAND OF OAHU																																	
A	5.20	*	.44	.07	.05			*	.92		.12		.03	.01							.80	1.20	*	*	.18	1.20	.02	.12				.08	*
A	2.27		.10	.01	.02	T		*	.61	.01	.06	.03	.01								.47	.55	.10	*	T	.12	.01	.05	T		.18	*	
A	2.63		.04	.02	.01				1.17		.06	.16									.33	.27	*	*	.03	.23					.07	.04	*
A	6.89	.18	.22	.33	.14	.26			.16	.13	.16	.03	1.61	1.40					.20		.59	.27	.03	.05	.21	.25	.55	.05	.08		.05	.05	
A	4.38		.21	.03	.18			.04	.21	.50	.16	.11	.07								.40	.33	.04	.05	1.77					.19		*	
A	.70	*	.11						.10	.09		.05						.17	*		.06	*	*	*	1.34	*	*	.81	*	*	.21	T	
A	5.38	*	.45	*		.35	*	*	.15	*		.05									.62	*	*	*	*	*	*	*	*	*	.17	*	*
A	.97	*	.04	*	*			.32	*	*	.12	*	*	*	*	*				.23	*	*	*	*	.16	*	*	*	*	*	.22	*	*
A	.90	T	.02			.02	T		.23		.03										.03	T									.01	.33	*
R	1.53	.01	.02		.01		.02	.32		.23		.03								.07	.31	.03	.04	T	.53	T	.02	T			.01	.13	*
A	1.81	.02	.04		.01	.02	.03		.10	.41								.13		.66	.02	.01	T	.25		.01	.03	.03				.15	*
A	2.62	T	.14	.01	.02	.03			.64	.02	.04	.01	.01							.50	.83	.21	T	.40		.01	.03	.03	*	*	.435	1.57	*
A	2.55	*	.21	.13	.03	.02																											

DAILY PRECIPITATION

Continued

HAWAII
OCTOBER 1967

Station		Total	Day of Month																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF MOLOKAI																																			
A	KALAUAPAPA 563	2.63								.40	.29								.10		.30	.30		T	.29								.95		
A	KAUNAKAKAI 536	.73									.18																						.27		
A	KEONELELE PENS 551	.94									.18																						.60		
A	KUALAPUU 534	1.35								.34																.07							.71		
A	MAPULEHU 542	3.32	.08			.10		.30	.10		.10	.05	.08	.01				.08	.25		.30	.20	.11		.07	.10	.06	.01		.32	.48	.25	.06		
A	MAUNALO 511	1.61								.34																							.59		
A	MOLOKAI AP 524	.49								.09																		.01					.47		
A	PUUOHOKU RANCH 542.1	3.23	.12		.15		.05			.85								.10		.20		.05	.15	.12	.27	.20	.75				.17	.23			
A	WAIKOLU 540	3.18								.69								.29								1.30						.90			
ISLAND OF LANAI																																			
A	KANEPUU 690	2.54				.16							.26								.02							.15					1.95		
A	KAUNALAPAU HARBOR 658	1.18																.10	.22												.80	.06			
A	LANAI CITY 672	1.96								.10	.14																.18		.01		.12	1.09	.24		
A	LANAIHAILE 684	4.52				.12							.24																				2.77		
A	MAHANA 694	1.67																										1.30					1.67		
A	MAHAUEA 676	2.06				.02								T																			1.55		
A	WAIKAEKUA 685	6.36									.07							.09	.64							2.57		.09				1.69	1.30		
ISLAND OF MAUI																																			
A	AUWAHI-252	1.20																								1.10						.10			
A	HALEAKALA B E 5 434	4.58	.01		.03							.11				1.02						.06	.32	.39				.14	.45			.16	1.89		
A	HALEAKALA RANCH 432	1.38																															.85		
A	HALEAKALA R5 338	2.61		.02	.02					.01			.07		.01	1.45	.01					.10	.09	.20	.01	.12		.06	.04				.40		
A	HALEAKALA SUMMIT 338.4	1.50														.80												.09	.04	.14		.22	.09		
A	HALIHAILE 423	1.06										.10	.01												.04	.06		.27		.09	.04		.06	.39	
A	HAMAKUAPOKO 485	1.64	.03	.05	.04	T						.12												.16	.02	.05	T	.40	.06	.02	.01	T	.22		
A	HANA 354	6.98	.26	.21	.39	.01	.03	.06			.01	.02	.04	.03		.21		.03	.19		.04	.11	.16	2.90	.36	.68	.90	.09			.13	.13			
A	HANA AIRPORT	6.90	.01	.16	.16	.08	T	.06					.28					.10	.81	.76	.06	.45	.48	2.30	.02	.55	.46			.02	.06	.25			
A	HANAHULI 281	9.82	.20		.02	T	.05				.09	.01	.24	.05			.35	.26	.20	2.86	.06		.19	2.31	.20	.51	.75	.02		.06	.04	.60	.76		
A	HOLUA CABIN 259.5	1.91			.70			.02																											
A	HONOKOHU 480	7.90																															7.90		
A	HONOKOHUA 493	2.08			.03	.02	.04					.12		.04	.08	.02												.43	.44		.04	.03		.05	.19
A	HONOMANU GULCH 341	4.00																																4.00	
A	KAHOMA INTAKE 374	4.12					.67								1.24							1.03									1.18				
R	KAHULUI WB AP	.77		T								T	.11						T	T	T	.06	.02	.11	.02	.01	.10			.07	.27				
A	KAILILI 436	3.31																															3.31		
A	KAILUA 446	6.96	.13	.28	.21	.33						.25	.02	.49	.02	.01				.44	1.04	.76	.18	.15	.12	.35	1.13	.43	.18	.01	.13	.30			
A	KAUAILA INTAKE 375	1.00		.13													.06																.38		
A	KEAMUA 410	.78										.01													.13	.32	.01	.02	.01				.28		
A	KEANAE 346	11.80																															11.80		
A	KEAWAKAPU BEACH 260.2	.37																															.04		
A	KIHEI 311	1.07																															.06		
A	KIPAHULU 258	9.43	1.10	.04	.20							.12		.24			.09	.45		.09	3.14	.59		.19	1.20	.23	.11	.68	.09	.20	.33	.17			
A	KULA HEIGHTS 323.2	.94																															.44		
A	KULA SANATORIUM 267	.67											.03			.05	.30	.04	T								.05					.05	.15		
A	LAHAINA 361	.25								.01	.03																						.24		
A	LAUNIPOKO INTAKE 376	2.35																												2.35					
A	LAUNIPOKO VILLAGE 372	.42																								.10							.32		
A	LUPU UPPER 442	5.10																															5.10		
A	MAHINAHINA 466	1.23		.04						.05		.05								.23	.03	.04		.23	.15		.10						.31		
A	MAKALELE -FLO 60-497	2.09		.03						.32														.55								.64	.34		
A	OLINO 332	2.32		.01	.02	T					.03					.01	.06	T						.25	.11	T	.10	.39				.30	.98		
A	OLOWALU 296	.67																															.57		
A	OLOWALU GULCH 377	1.40																															1.40		
A	PAAKEA 350	12.96	.38	.17	.32	.30						.50	.16	.41					.02	1.14	2.04	1.11	.24	.41	.26	.36	.82	.79	.10		.08	3.35			
A	PAIA 406	1.32			.03							.06												.04	.05							.09	.30		
A	PANILEIHULU 259.2	4.80																															.48		
A	PAUWELA 490	2.86		.30	.12	.05					.14																						.26		
A	POHAKA BRIDGE 307.2	.71																														.15	.29		
A	POLIPOLI SPRINGS 267.2	2.45				.02							.09						1.33																
A	PUOHOKAMOA 2 343	13.00																															13.00		
A	PUU KUKUI MAKAI 472	4.60																															4.60		
A	PUUNE 396	.77										.01												.15		.22		.08				.13	.18		
A	SPRECKELSVILLE 400.2	.54		T								.04												T	.12	.01	.03	.14	.01				.19		
A	TWIN GATES 261.3	.75							</																										

DAILY PRECIPITATION

HAWAII
OCTOBER 1967

Continued

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAMUELA 192.2	3.29	.07												.03	.30					.05	.02			1.38	.03		.04	.03		.32	.33	.69	
KAMUELA AIRPORT	2.57													T	.23					.05	T	T	T	.76	.05	T			.39	.26	.83		
KAPAPALA RANCH 36	4.65		.17			.01	.02	*		.15	.20	.18	.05	.20	.64	*	1.40				.20	*		.45	.08			.11	*	.51	*	.28	
KAPOHO LANDING 935	8.52						1.42							1.77	*	*					2.40							2.93	*				
KAUWAHA 88.1	6.79	.53		.15		.01						.12	.21	1.64	.04			.16	.48		.08	.13	1.12	.33	.34	1.07	.09	.08		.17	*	.04	
KAWAII LOWER 193	4.87						.63	*	*	*	*	*	*	.48	*	*					1.98	*						1.78	*	*	*	.47	
KEAU 92	7.50	.37	*	.22	.04						.08	.42	.35	T	.25	.12		.11		.15	.19	1.72	.46	.51	.02	.68	.08	.12	.04	.07	.01	.47	
KEALAKEKUA 26.2	6.22			.08	T	.05			T	T				T	1.94	.22				.06	.01	.64	*	.24	.24	1.84		.02	.23	.02	.29		
KEHENA 181.2	4.72		*	*								.04	.10	.02	.07	*		.03	.01	.02	.02	.01	*	1.72	.01	.01	.02	.02	*	*	.21	1.56	
KEHENA PESEPOVIP 176.1	4.09		.15			.07																										3.12	
KIOLAKAA A 7 F 6	3.12					*	*	*	*	*	.02	.20	.34	1.40	.16	.02		.30	.43		.04	.08	.76	.38	.12	1.29	.26	.01	.14	.21	.08	.03	.24
KIPA 89.2	7.40	.64	T	.24	.01							.06	.01	.01			.01	.02		.02	.01	*	*	.32	.10	.03	.30	.03	*	*	.70	*	
KOHALA 179A	1.69		.05			.02						.08	.02	.12			.08			.03	.01	*	*	.21	.05	.01	.13	.07	*	*	.03	1.31	
KOHALA MAULILI 176	2.32		.06					T	T			.09	.03	.06	T					.02	T	.01	.24	T	.10	T	.21	.02	T	*	.01	.90	
KOHALA MISSION 175.1	1.76	.07	T			T	T																										
KOIAHE LOWER 196	1.66		*	*	*		.10	*	*	*	*	*	*	.19	*	*	*	*	*		T		.57	*			.78	*	*	.34	.02	.02	*
KONA AIRPORT 68.3	1.31				.11									.20	*	*	*		.01	.03	.02	.06	.07	.17		.05	.05	*	*	.01	.75		
KUKIAU 222	1.50	.10										.19	.04					.07	*		.03					.20	.18		.12	*	.12	1.40	
KUKIHALE HIC 199	2.26											.02		.09				.06	.02		.04	*	*	.07	.05	.18	.12				.15	1.10	
KUKIHALE MILL 206	1.82													.01																			
KULANI CAMP 79	1.32											.06	.06			.09				.04	.05	.65	.14	.19	.05	.70			.21	.23	.05	.90	
KULANI MAUKA 76	3.22							.48	*	*		.02	.08			.12				1.50													
KULANI SCHOOL SITE 78	3.55	.26	*		.05	.55										2.07	3.21		.16	.28	.04	.25	T	.11	1.08	.08	.08		1.48	.06	.17	*	
LAKIHAU 68 C	9.42		.01	.78	.05	.02	.03	*	*	.05	.01			T			.28	.06	.04			.25					2.17	.40	.02		.22	.04	
MAHUKA 2	4.47																																
MAUNA KEA BEACH	1.97					.42								.17		1.21			.05	.08				.01						.19	.01	.07	*
MAUNA LOA SLOPE OBS	1.67																.01		.21	.38													
MIDDLE HOLUALOA 68.1	2.17														.35	.61			.01						.56	.15	.53		.43		.07	.18	
MIDDLE PEN 147.1	1.37		*	*	*	*	*	*	*	*	*	*	*		.05	.54			.04														2.67
MOAULA 18	2.67																																
MOUNTAIN VIEW 91	9.93	.48		.32				.27		.02	.02	.21	.68	2.97	.27			.17	.47		.16	.08	1.31	.34	.40	.03	.37	.03	.74	.14	.23	.02	.20
NAALEHU 14	2.79							.27	.08	T				.72	*	*		.06	.51	T	.01			.11	.56	T		.41		.05	.01		
NAPOOPOO 28	6.19									.04	*	*	*				2.86						.92								2.37	T	
NAUULU FOREST 38.6	3.75	.07	*		.02			T						1.60	.26	T		T		.02	.03	.02	.07		1.03	.22	T	.17	T	.26	T	.95	
NIULII 179	1.87		.06								.05							.14	.03	.02	.02	*		.24	.07								
OOKALA 223	2.80	.22	T									.43	.24	.02				T	T		.44	.02	.11	.14	T	.16	.15	.11	.02	.02	.05	.67	
OPHIHALE 2 24.1	4.99		.50	.17	.11	T	.02	.02	.34	T		.02	.01	.19	.03	T	T	.08		.01	.27	.08	.17	.27	.13	.07	.02	.48	.20	.28	.09	1.43	
OPCHIO LANDING 91.5	7.93					.74								2.87							1.17	*											
PAALUHAU 217	2.02										.12	.01						.14	.01	.05		.02	.04	.03	T	.09	.06	.03		.15	1.34		
PAALUHAU 221	1.05	.04									.12	T							.02	.02							T			.01	.73		
PAHALA 21	3.80					.20			.21	1.08				.95	.06	.05	.48		.01	.03	.14			.36	.41		.18	.21	.22	.15	.02	.30	
PALAKA 65	9.22	.54	*	.20	.09		.14	.03			.04	.15	.57	2.40	.90	.05			.09	.47	.27	1.37								.15	.24	.02	.17
PAKAO 37	7.90																															7.90	
PAPAIAU 144A	6.55	.10	.01	.05	.04						.05	.46	.28	.60	.18	T		.03	.06	.17	.16	1.10		.52	.85	.15	.64	.03	.46	.19	.06	.34	
PAPAIAU MAUKA 140.1	7.92	.32	.08	.04	.04		.01				.01	.33	.25	1.38	.07			.14	.51	.15	.09	1.20		.86	.24	.29	.75	.02	.22	.41	.11	.03	.37
PEPEKEO MAKAI 144	9.47	.14	*	.90	.12						.07	.25	.88	.70				.04	.05	.78	.14	.74	.20	.70	.30	1.62	.14	.64	.15	*	.18	.73	
PILIHUKA 89	11.60																															11.60	
POHAKULOA 107	1.33																													.01	.08		
PUAKO 95A	1.13			.01																													
PUU KHE 120	1.72																																1.72
PUU LAU 102.1	1.64																																1.64
PUU LEHUA 73	4.50																																4.50
PUU MALI 113	1.08																																1.08
PUUKUMAU 167	4.57		.13			.05					.03	.03		.02	.04	.03		.01	.01	.01			1.12	.03			.04	.03		.03	.08	.61	
PUU OO 82	3.56	.08	.04	.01		.04					.09	.19	.54	.04	.03			.50	.42	.05	.18	.37	.19	.25	.30				.08	.05	.01	.02	.08
PUU WAHAA 94.1	5.13			.07		T	1.05	*	*	*	*	*	*			3.21	.09				T		.72				T		.23		.69	.01	.11
SADDLE POAD 1 84	8.25		*	*	*		1.05	*	*	*	*	*	*	*	*	*	*		.32			4.00	.72	*	*	.38	*	*		3.20	*	*	
SOUTH POINT CORRAL 3	.92																																
UMIKOA 118	1.32					.01																										.07	.95
UPOLU POINT USCG 159.2	1.15	.08									.02	.01									.01	.10	.03	.12	.19	.05		.01			.03	.60	
WALAKEA SCO 88.2	8.96	.47	.04	.08	.29								.58	.53	1.97																		

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages percent			
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DAILY TEMPERATURES

HAWAII
OCTOBER 1967

Station		Day Of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX	78	74	76	71	72	73	73	70	70	72	73	73	74	75	72	74	71	72	69	71	71	73	72	73	75	73	75	73	74	65	61	72.2	
	MIN	58	62	56	57	47	51	53	57	48	52	56	55	52	49	50	49	52	51	56	59	59	56	50	54	51	51	61	54	60	60	49	54.0	
KILAUEA POINT 1133	MAX	86	87	88	86	89	86	82	86	87	85	86	87	86	90	88	84	87	86	85	86	84	86	87	87	87	86	86	82	83	87	79	85.8	
	MIN	70	69	68	71	72	71	70	73	70	73	75	70	72	74	73	73	72	68	69	74	75	71	75	71	74	72	73	71	71	70	70	71.6	
LIHUE WB AIRPORT	MAX	85	84	85	85	85	83	83	83	83	84	84	84	84	84	85	84	84	85	83	82	84	84	84	84	84	85	84	84	83	86	81	80	83.8
	MIN	74	74	76	73	70	70	67	70	70	75	75	73	69	67	70	69	72	71	72	74	75	72	67	73	71	74	72	70	68	69	65	71.2	
MAKAHUEA POINT	MAX	87	89	87	87	87	88	87	86	81	86	88	86	86	87	88	89	88	87	88	87	86	86	85	86	86	86	86	87	86	89	91	85	86.8
	MIN	75	75	74	73	73	73	71	73	72	76	76	76	73	72	72	73	74	72	73	71	74	74	73	72	73	75	73	75	71	73	71	73.2	
MANA 1026	MAX	89	88	88	88	87	88	88	87	88	89	89	91	91	88	87	87	88	88	86	85	87	86	87	88	87	88	88	90	91	89	88	83	87.9
	MIN	67	70	67	69	70	70	69	70	69	69	69	64	69	66	70	69	70	69	69	69	70	64	67	68	67	60	69	68	67	67	65	67.9	
NIU R10GE 1035	MAX	88	87	86	87	87	88	88	88	88	86	88	89	89	88	88	90	90	88	85	84	85	88	89	87	85	87	86	85	86	87	85	87.2	
	MIN	67	66	68	66	66	68	67	68	67	67	68	67	67	67	67	66	67	67	67	67	67	68	65	61	64	65	66	65	65	65	62	66.2	
WAIAMI LOWER 1054	MAX	84	85	82	84	83	85	82	83	80	80	81	82	84	85	85	83	84	83	82	80	80	82	84	82	82	82	82	82	85	81		82.6	
	MIN	65	66	68	65	65	65	67	64	65	66	68	65	63	60	65	63	65	64	66	68	66	67	63	65	65	65	69	67	64	65		65.3	
* * *																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX	89	88	89	89	88	89	87	90	91	89	87	88	88	89	86	87	86	83	82	85	87	87	88	86	87	88	86	85	85	82	86	87.0	
	MIN	70	71	71	69	68	66	66	69	66	67	70	71	69	68	68	65	68	70	70	70	73	71	68	69	68	70	71	70	67	68	70	68.9	
HONOLULU WBAP 703	MAX	91	90	92	90	90	87	86	87	90	88	89	89	87	91	88	89	88	84	83	86	89	90	87	90	88	89	89	88	86	84	86	88.1	
	MIN	76	74	76	75	72	71	70	73	69	74	75	75	72	71	72	70	73	73	73	74	76	74	71	73	74	75	77	75	71	72	70	73.1	
HONOLULU SUBSTA 704	MAX	85	84	85	86	86	84	84	82								84	84	82	80	82	83	85	84	85	83	84	84	83	83	82	81	83.5	
	MIN	75	73	77	75	75	74	73	70								73	75	73	75	74	76	75	74	73	74	73	73	74	73	74	73	74.0	
KAHUKU 912	MAX		86	85	85	85	86			86	85	85	85	85			85	86	86	85	83												85.0	
	MIN		73	73	73	72	68			69	75	74	75	72			72	70	70	70	75												72.0	
KANEHOE MAUKA 781	MAX	84	84	84	85	85	85	96	85	81	85	85	84	83	85	85	85	85	83	79	80	81	87	84	84	82	84	84	82	82	85	82	83.7	
	MIN	73	73	73	72	70	70	70	71	69	70	71	72	72	71	72	70	71	72	69	71	73	75	69	69	71	71	73	72	70	71	71	71.2	
MAKAPUU POINT 724	MAX	80	80	81	81	81	82	83	82	81	82	81	81	81	85	83	83	85	81	79	80	80	79	80	83	81	80	82	80	81	84	78	81.3	
	MIN	73	71	76	73	70	76	74	70	76	72	71	75	72	72	75	73	74	76	73	71	76	72	71	74	73	70	76	72	71	76	69	73.0	
OPAEULA 870	MAX	80	81	81	82	84	82	88	88	83	87	84	81	83	88	87	85	87	85	85	87	79	80	82	83	82	80	82	86	81	82	82	83.5	
	MIN	69	69	67	66	66	65	64	66	67	67	68	69	68	67	66	65	65	67	65	68	69	69	65	65	65	68	68	72	68	69	64	67.0	
PRI WAIHANA 820.2	MAX	84	86	86	87	87	89	89	88	88	87	87	86	87	89	84	88	88	85	83	80	80	83	85	85	85	84	86	85	84	87	84	85.7	
	MIN	67	69	68	68	65	63	63	63	63	64	69	68	65	66	64	61	63	66	67	68	67	69	64	64	65	64	69	67	64	64	67	65.5	
WAIALUA 847	MAX	86	87	87	88	87	91	86	85	86	89	87	86	85	87	91	87	88	88	87	84	83	85	87	86	86	85	86	84	86	89	83	86.5	
	MIN	68	67	67	66	65	63	64	67	70	65	66	66	66	67	67	65	64	66	67	68	68	68	69	65	64	65	69	69	67	67	67	66.5	
WAIKIKI 717.2	MAX	90	90	89	90	91	92	88	90	89	90	88	89	89	88	92	89	89	88	84	83	87	88	89	88	88	89	89	90	88	87	85	88.6	
	MIN	75	72	74	70	68	68	68	72	67	69	74	72	70	69	72	68	70	72	72	73	69	68	70	71	73	75	76	75	70	69	72	71.1	
* * *																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX	84	86	85	85	84	86	83	85	81	83	83	84	84	88	86	87	85	83	81	79	82	83	83	85	84	82	84	83	83	81	84	83.7	
	MIN	70	77	74	71	72	67	68	68	69	69	72	73	68	70	77	67	67	73	70	71	71	73	70	70	70	71	70	72	72	74	71	70.9	
* * *																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX	80	82	79	79	82	84	82	84	83	79	77	78	78	80	78	79	78	76	74	77	77	78	78	78	80	79	78	76	79	81	77	79.0	
	MIN	66	67	65	63	64	67	67	67	63	66	67	67	65	64	66	64	66	67	65	67	66	68	65	64	66	66	66	66	67	67	65	65.7	
* * *																																		
ISLAND OF MAUI																																		
HALEAKALA R5 338	MAX	68	73	65	65	65	66	64	65	68	72	67	66	63	65	63	63	62	62	60	59	61	63	65	61	64	57	64	68	67	64	63	64.5	
	MIN	54	50	49	45	43	40	46	51	47	57	48	44	46	47	42	42	44	49	49	49	46	46	45	48	48	48	51	50	46	46	49	47.3	
HALEAKALA SUMMIT 338.4	MAX	59	61	55	5																													

DAILY TEMPERATURES

HAWAII
OCTOBER 1967

Continued

Station		Day Of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF HAWAII																																		
MAINA 214	MAX	84	85	88	87	86	84	85	84	85	87	87	84	85	85	85	84	87	80	75	78	82	83	83	87	85	84	86	82	83	85	86	84.2	
	MIN	69	68	68	66	64	65	65	65	66	70	68	69	65	69	65	68	68	69	68	68	70	67	66	66	65	65	69	65	66	66	68	67.0	
HAWAII VOLCNS NP HO 54	MAX	74	72	73	71	73	77	74	73	77	74	74	72	74	69	71	71	75	70	71	70	67	65	71	72	72	72	69	69	71	70	70	71.7	
	MIN	56	57	55	55	52	54	51	54	55	56	57	58	59	55	53	49	56	58	57	57	57	55	54	55	55	56	56	55	54	56	55	55.2	
HILO WB AIRPORT	MAX	86	86	84	90	88	86	85	88	87	86	84	86	86	86	85	87	82	83	82	84	85	86	85	84	83	83	82	84	88	86	76	84.9	
	MIN	70	69	68	68	67	69	67	64	69	70	71	72	72	69	69	66	70	71	71	71	71	70	70	71	69	68	69	70	70	72	71	69.5	
KAINALIU 73B	MAX	83	82	84	82	82	83	83	82	81	82	80	84	85	81	80	80	78	78	78	78	82	83	82	82	82	81	82	80	80	78	79	81.2	
	MIN	65	62	64	65	60	62	60	59	60	62	63	64	64	63	60	61	62	61	64	63	64	64	63	60	61	61	63	63	64	63	65	62.4	
KAMUELA 192.2	MAX	75	75	75	77	78	83	80	77	81	77	76	76	77	82	80	76	83	75	69	70	76	75	76	80	75	72	75	73	78	78	79	76.7	
	MIN	61	56	58	60	60	60	50	45	48	53	62	62	60	55	57	50	53	62	62	62	62	59	52	55	60	62	61	61	62	62	62	57.9	
KAMUELA AIRPORT	MAX	79	80	76	76	76	78	78	79	80	77	78	76	76	77	78	78	79	74	69	71	75	76	78	76	76	75	72	74	77	76	77	76.4	
	MIN	56	62	60	61	59	60	60	56	64	50	54	59	59	58	56	54	51	55	59	59	58	58	56	56	55	59	59	58	62	54	59	57.6	
KEAAU 92	MAX	85	85	85	85	86	87	87	87	87	85	87	85	85	85	85	85	85	83	87	83	84	84	84	88	87	83	83	87	87	87	86	85.6	
	MIN	67	67	67	65	65	65	64	64	64	67	68	68	69	64	64	64	65	69	67	68	66	66	66	68	67	65	68	67	67	67	68	66.3	
KEALAKEKUA 26.2	MAX	82	82	82	82	82	82	82	83	81	82	84	84	84	84	83	82	81	78	77	78	82	83	83	84	82	82	81	81	80	79	78	81.6	
	MIN	65	65	65	66	62	64	63	62	62	64	64	65	66	65	62	63	65	68	65	65	66	65	65	63	63	64	65	66	66	66	67	64.6	
KOHALA MISSION 175.1	MAX	84	83	83	84	84	85	85	84	84	85	83	82	85	85	85	84	85	82	78	77	83	81	85	85	82	83	80	80	82	87	87	83.3	
	MIN	72	70	71	70	67	66	65	64	65	69	70	71	71	67	67	65	65	71	71	71	72	68	68	68	68	67	68	69	69	71	71	68.6	
KONA AIRPORT 68.3	MAX	85	84	84	85	84	86	84	86	85	84	85	85	87	86	85	86	85	85	86	86	86	86	83	87	85	86	85	84	85	84	84	85.1	
	MIN	71	72	71	71	69	71	69	68	69	64	64	64	64	70	70	65	70	71	67	68	69	70	70	66	64	64	64	67	68	67	66	67.8	
KULANI CAMP 79	MAX	66	65	69	66	65	72	68	69	70	69	68	68	69	70	68	65	68	65															67.1
	MIN	47	49	49	46	42	48	44	46	41	47	45	53	52	50	48	42	53	52														47.9	
MAUNA KEA BEACH	MAX	90	93	92	90	90	88	88	89	88	90	90	90	90	89	88	88	89	84	80	83	91	94	89	89	89	89	86	88	87	89	86	88.6	
	MIN	73	75	73	72	72	71	70	69	70	67	70	74	75	73	69	71	73	73	74	74	76	74	72	73	74	71	74	71	73	73	73	72.3	
MAUNA LOA SLOPE OBS	MAX	60	61	53	55	55	58	56	57	59	57	56	55	56	52	53	54	52	47	45	53	58	53	48	47	48	49	53	54	54	54	53	53.7	
	MIN	39	41	36	35	36	39	36	38	39	38	42	40	39	37	36	36	36	37	36	37	37	38	36	34	35	36	38	35	36	37	36	37.1	
MOUNTAIN VIEW 91	MAX	79	80	82	78	82	84	83	83	84	82	82	79	80	80	80	82	82	78	76	76	77	76	79	78	80	79	78	78	78	80	81	79.9	
	MIN	61	62	61	59	56	56	57	58	60	59	62	63	64	61	59	57	56	61	63	63	64	61	63	62	62	60	63	63	63	64	61	60.8	
NAALEHU 14	MAX	83	84	85	83	84	84	84	84	84	84	85	85	85	85	83	83	83	83	79	83	83	83	83	83	82	84	84	83	83	83	82	83.5	
	MIN	68	69	70	69	66	68	68	65	65	67	72	72	69	69	67	67	69	72	70	70	70	68	68	67	66	67	70	70	68	68	69	68.5	
OOKALA 223	MAX	85	85	86	85	85	86	86	87	84	85	87	85	85	85	85	79	79	75	79	78	82	82	82	84	83	85	80	81	83	83	85	83.3	
	MIN	71	73	72	71	69	68	69	67	71	70	70	71	71	70	69	67	67	71	69	69	70	69	69	69	67	68	71	70	70	70	70	69.6	
OPIHIHALE 2 24.1	MAX	83	86	84	77	83	82	79	78	81	82	83	82	80	83	78	83	78	75	77	78	78	77	81	80	79	77	78	81	78	78	77	79.9	
	MIN	63	61	61	59	58	61	62	58	58	60	61	63	62	60	61	63	62	64	63	62	63	60	61	59	60	60	64	65	64	64	63	61.5	
PAHALA 21	MAX	84	84	85	81	83	83	83	83	82	81	85	85	84	79	80	80	83	81	77	81	82	84	82	83	82	88	84	84	81	83	79	82.5	
	MIN	66	65	65	62	61	61	64	68	64	62	66	65	66	65	62	62	62	65	67	66	69	68	68	64	64	64	65	64	67	66	66	64.7	
UPOLU POINT USCG 159.2	MAX	85	86	86	85	86	86	86	84	85	84	85	85	85	88	87	85	86	83	86	79	84	83	82	86	84	78	84	84	85	88	88	84.8	
	MIN	72	75	71	70	74	69	73	71	70	75	73	72	72	71	67	68	67	75	74	69	70	70	69	69	71	70	74	71	70	69	72	71.1	

EVAPORATION AND WIND

Station		Day Of Month																															Total Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
LIHUE WB AIRPORT	EVAP	.28	.29	.28	.48	.52	.34	.30	.13	.26	.27	.42	.35	.30	.31	.27	.27	.30	.20	.30	.27	.29	.39	.22	.27	.30	.34	.24	.23	.20	.21	.18	9.01
	WIND	156	148	128	128	72	65	63	63	98	84	173	150	156	66	90	61	62	76	95	173	173	205	108	66	117	151	132	116	75	58	66	3374
	MAX	89	91	88	91	93	94	93	88	89	92	88	89	89	92	91	93	94	90	91	85	85	87	87	93	89	89	88	88	87	87	87	89.6
	MIN	70	71	70	71	69	69	67	67	69	71	69	69	69	67	69	68	69	69	70	70	70	68	68	68	69	69	72	70	67	68	63	68.9
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.25	.25	.29	.26	.20	.26	.25	.18	.17	.26	.27	.26	.25	.18	.23	.25	.20	.19	.05	.17	.15	.35	.24	.17	.25	.17	.25	.24	.18	.17	.10	6.69
	WIND	52	47	41	30	19	25	17	16	18	35	34	40	24	20	22	32	24	20	15	25	51	68	29	17	30	30	34	38	27	15	33	928
	MAX	91	92	92	90	90	95	98	93	91	93	92	93	91	97	93	95	93	88	83	86	88	90	91	93	92	91	90	89	91	90	85	91.2
	MIN	71	71	72	72	70	71	72	72	72	72	70	72	71	72	71	70	72	73	72	71	72	71	71	70	70	71	72	72	72	72	69	71.3
ISLAND OF HAWAII																																	
HILO WB AIRPORT	EVAP	.25	.22	.17	.28	.21	.27	.27	.27	.25	.14	.14	.06	.13	.19	.28	.21	.14	.08	.08	.04	.11	.17	.08	.22	.22	.06	.09	.18	.16	.19	-	5.33B
	WIND	58	58	48	54	72	58	65	75	65	46	57	57	68	55	70	69	58	38	40	49	62	51	42	49	79	36	37	63	47	48	70	1744
	MAX	91	91	89	92	89	93	91	89	87	90	86	85	85	86	90	89	83	80	83	82	87	87	83	88	88	80	80	87	83	90	76	86.5
	MIN	68	68	67	65	63	67	64	60	69	67	69	69	70	67	67	64	69	69	69	69	69	67	67	68	69	68	67	68	69	66	71	70

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STATION INDEX

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CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL										TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII													ISLAND OF HAWAII												
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO	PUU KINE 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
NAALIMU 14	A 8588	03	KONA	4	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO	PUU LAU 102-1	A 8452	05	HAMAKUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME
NAPUPOPO 28	A 8697	04	S KONA	4	19 28	155 55	395	7A	7A			KONA EXPERIMENT STA	PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4850					GREENWELL RANCH
NAUULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK	PUU HALE 113	A 8515	01	HAMAKUA	1	19 55	155 26	6940					KUKAIAU RANCH CO
NIULII 179	A 6806	01	N KOHALA	1	20 14	155 45	75	6A				LAUPAHOE SUGAR CO	PUUKUNUA 167	8548	01	N KOHALA	1	20 12	155 50	1800					KOHALA OITON CO LTD
KOHALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			MISS C. LEONARD	PUU OO 82	8550	02	S HILO	2	19 44	155 23	8340					W. H. SHIPMAN, LTD
OPIMIHAE 2 24.1	7186	04	S KONA	4	19 16	155 53	1210	7A	7A			BOARD OF WATER SUPPLY	PUU WAHAA 94-1	8550	05	N KONA	5	19 47	155 51	2540					DILLINGHAM RANCH INC
ORCHID LAND EST 91.5	7185	07	PUNA	2	19 34	155 00	445	VAR				HAUHAU SUGAR CO	SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY
PAHIAU 217	7204	01	HAMAKUA	1	20 05	155 26	415	7A	7A			HAMAKUA HILL CO	SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	400					HUTCHINSON SUGAR CO
PAHUELLO 221	7312	01	HAMAKUA	1	20 03	155 22	800	7A	7A				5 POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	305					FEDERAL ELECTRIC CORP
PAHALA 21	7421	01	KAU	1	19 12	155 29	870	8A	8A			HAWAIIAN AGR CO	UNIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420					KUKAIAU RANCH CO
PAHOA 85	7447	01	PUNA	2	19 30	154 57	670	6A				PUNA SUGAR COMPANY	UPOLO POINT USCG 159+2	8830	01	N KOHALA	1	20 15	155 53	1	8A	8A			U S COAST GUARD
PAKAI 37	A 7643	01	KAU	3	19 22	155 28	5000	MO				HAWAIIAN RANCH CO, INC.	WAIAKEA SCO 88.2	9025	02	S HILO	2	19 40	155 08	1050					SHINICHI KANESHIRO
PAPAIAKOU 1444	7721	02	S HILO	2	19 47	155 06	200	7A	7A			NAUNA KEA SUGAR CO.	WAIRANOMULA 176.6	9350	01	N KOHALA	1	20 08	155 47	3830					KAHUA RANCH
PAPAIAKOU MAUKA 147.1	8000	02	S HILO	2	19 51	155 05	120	7A	7A			NAUNA KEA SUGAR CO.													
PEPECKO MAUKA 144	8051	02	S HILO	2	19 44	155 10	1730	MO				PEPECKO SUGAR CO													
PIMOHUA 89	A 8051	02	S HILO	2	19 44	155 10	1730	MO				STATE DIV OF FORESTRY													
POHAKULUA 107	A 8063	02	HAMAKUA	1	19 45	155 32	6511	VAR				STATE DIVISION OF PARKS													
PUREO 95A	8180	01	KOHALA	5	19 59	155 50		6A				WILLIAM PAYNE													

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Service Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in "F.", precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS: For all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- And also on an earlier date or dates.
- ++ Highest observed one minute wind speed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly, usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W Gage read weekly or irregularly only.
- WB Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above roof-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

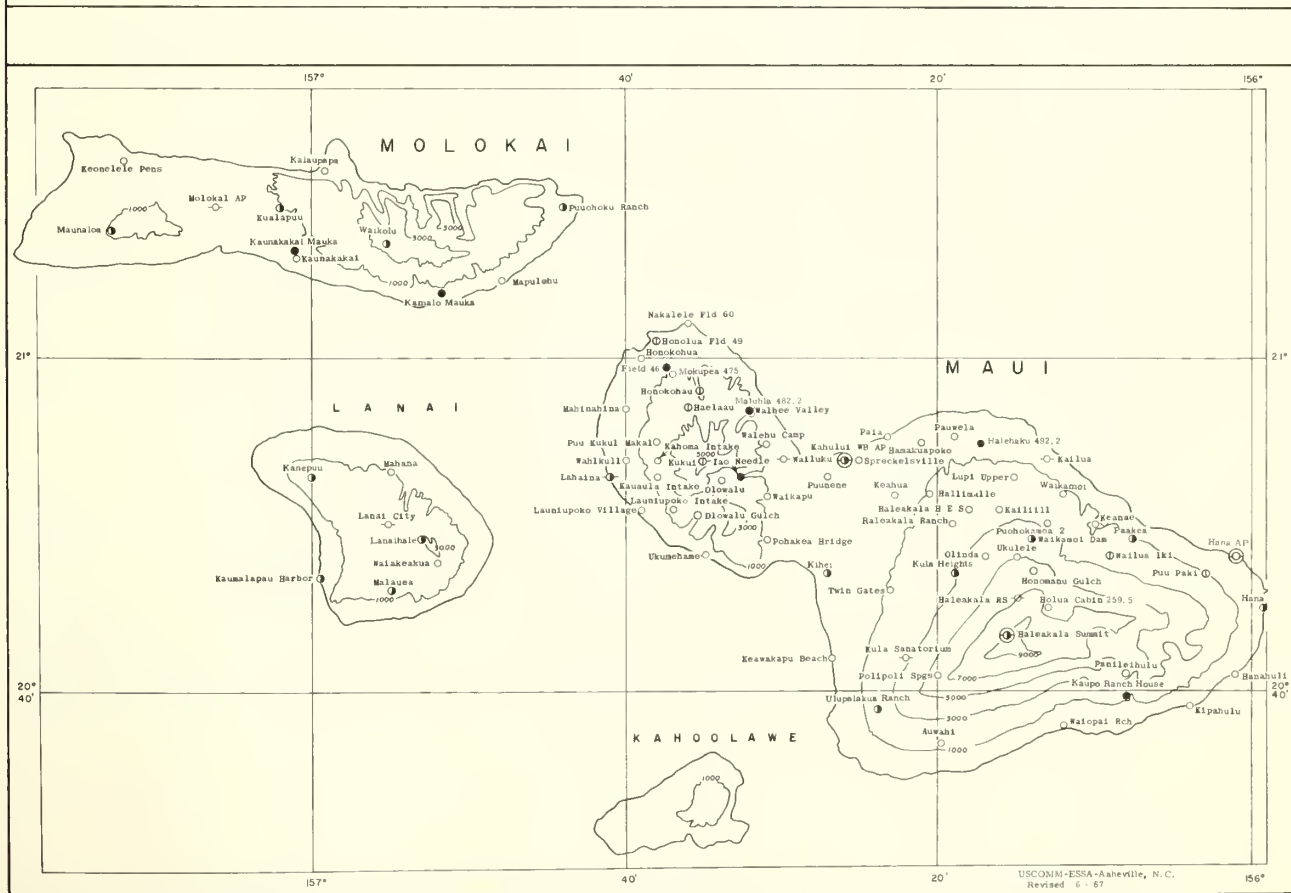
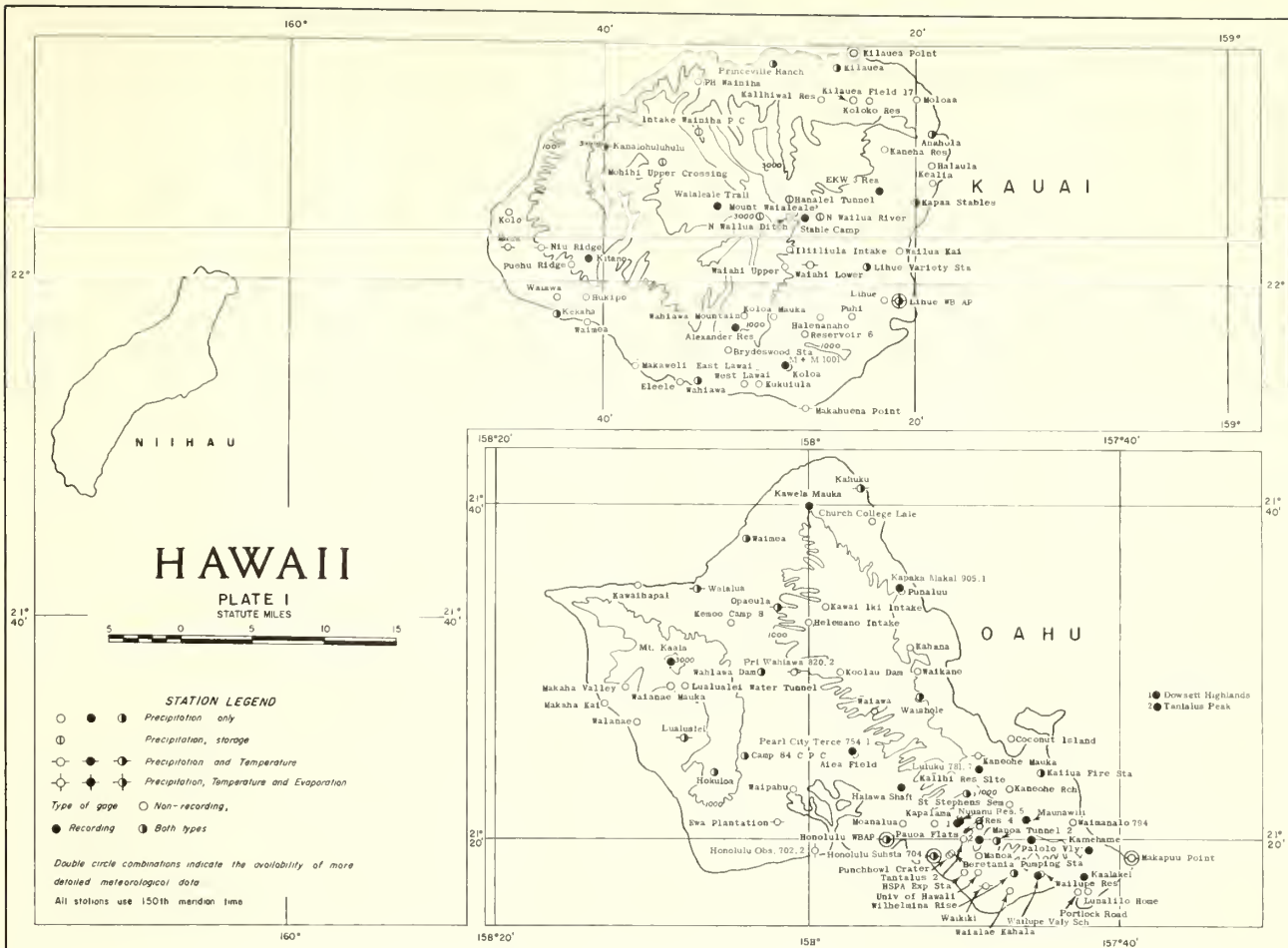
Stations appearing in the Index, but for which data are not listed in the tables, were either missing or received too late to be included in this issue.

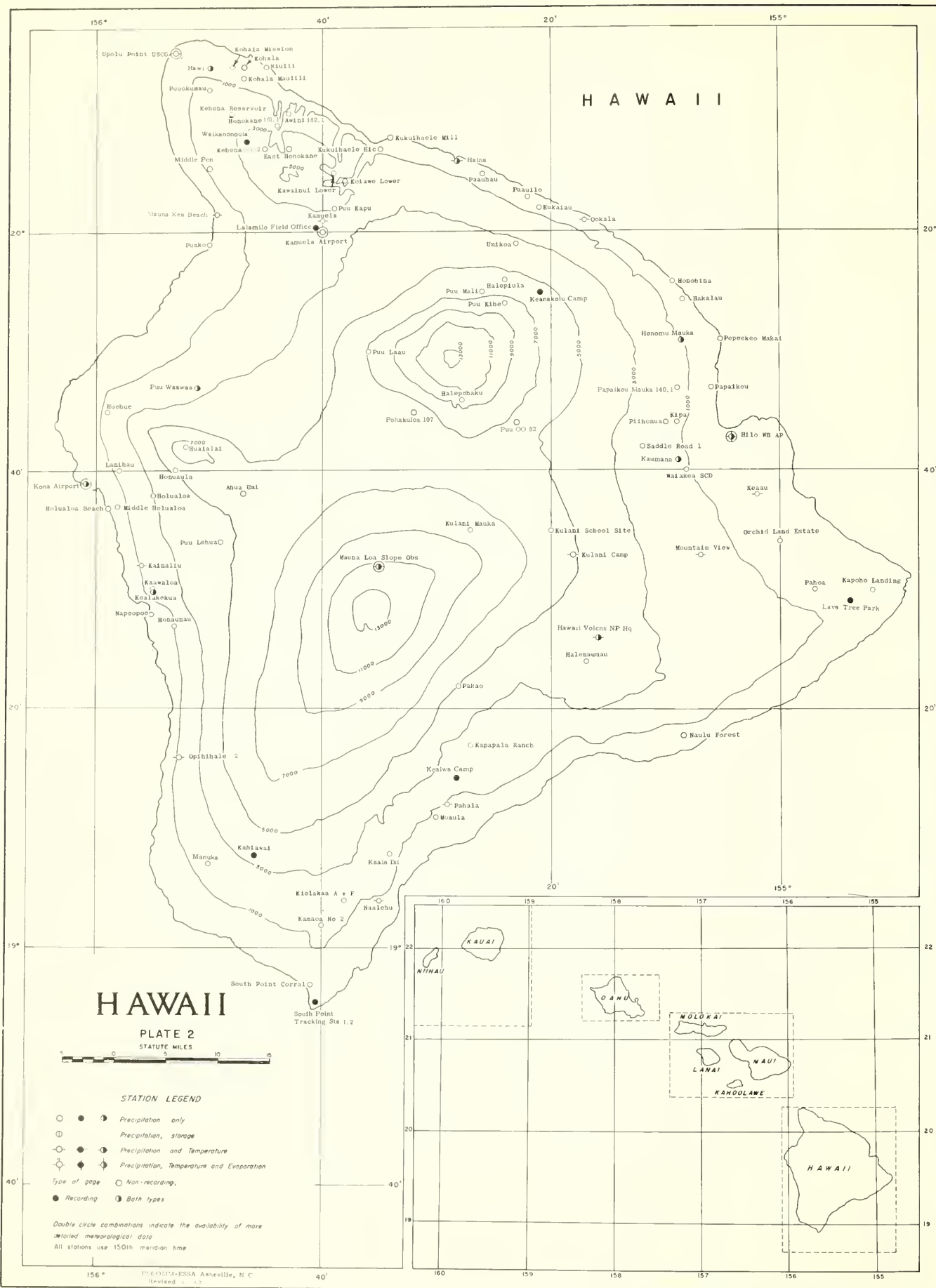
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, MONTHLY CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substation stations after 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual: \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

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CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE

ALEXANDER B. TROWBRIDGE, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

ENVIRONMENTAL DATA SERVICE

HAWAII

NOVEMBER 1967

Volume 63 No. 11

CLIMATOLOGICAL DATA

MAR 19 1968

Station		Temperature								Precipitation													
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet		No. of Days			
										Max	Min.	Total	Max. Depth on Ground					Date	10 or More	50 or More	1.00 or More		
ISLAND OF KAUAI																							
ANAHOLA 1111		A																					
KANALOHULU 1075		A	66.3	52.3	59.3		73	19	40	14													
KAPAA STABLES 1104		A																					
KILAUEA FLD 17 1135		A	80.4	69.1	74.8		85	19	64	26													
KILAUEA POINT 1133																							
KOLOA 936		A																					
LIHUE WB AIRPORT		R	79.9	69.9	74.9	.4	83	19	64	17													
MANA 1026			84.9	64.9	74.9	.2	90	10	61	16													
N WAILUA OITCH 1051																							
PH WAINHA 1115																							
PUEHU RIGGE 1040																							
WAIHANA 930		A																					
WAIHAI LOWER 1054			77.8	63.3	70.6		81	19	58	17													
WAIHANA 947																							
ISLAND				70.9																			
ISLAND OF OAHU																							
HONOLULU OBSERV 702.2		R	84.1	71.1	77.6	1.7	87	9	65	14													
HONOLULU WBAP 703			82.3M	71.0M	76.7M	1.9	84	1	65	20													
KAHUKU 912			72.7	64.5	68.6	- 5.6	76	8	59	28													
KANEHE MAUKA 781																							
KOOLAU OAM 833																							
LUALUALEI 804																							
MAKAPUU POINT 724			78.1	71.1	74.6		81	25	68	28													
NUUANU RES 4 783																							
OPAEULA 870			78.2	65.6	71.9	1.7	89	18	61	14													
PALOLO VALLEY 718																							
PR1 WAIHANA 820.2			80.6	65.3	73.0		85	20	58	15													
PUNALUU 884																							
WAIHANA OAM 863																							
WAIHOLE 837		A																					
WAILUA 847		A	81.4	66.0	73.7	.3	85	17	58	14													
WAIKIKI 717.2			85.2	68.9	77.1		90	6	62	28													
WAIPIAHU 750		A																					
ISLAND				74.2																			
ISLAND OF MOLOKAI																							
KUALAPUU 534		A																					
MAPULEHU 542																							
MAUNALO A 511																							
MOLOKAI AP 524			80.4	69.6	75.0		84	20	64	15													
ISLAND				75.0																			
ISLAND OF LANAI																							
LANAI CITY 672			76.0	64.8	70.4	1.8	79	22	61	14													
ISLAND				70.4																			
ISLAND OF MAUI																							
HALEAKALA B E S 434		A	59.7	43.8	51.8		65	21	38	13													
HALEAKALA RS 338			80.5	71.1	75.8		83	19	66	14													
HANA AIRPORT																							
HONOKOHUA 493		A																					
KAHULUI WB AP		R	81.5	67.1	74.3	- .7	85	19	58	14													
KAILUA 446			77.1	63.8	70.5	- .5	82	20	62	19													
KEANAE 346		A																					
KIPAHULU 258																							
KULA SANATORIUM 267			72.3	56.0	64.2	- .2	79	26	52	14													
LAHAINA 361			86.1	68.6	77.4		88	29	65	15													
PAIA 406																							
WAILUKU 392			82.4	66.1	74.3	- .5	89	19	62	16													
ISLAND				69.8																			

CLIMATOLOGICAL DATA

HAWAII
NOVEMBER 1967

CONTINUED

Station	Temperature										Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
									Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
									90° or Above	32° or Below	32° or Below	32° or Below										
ISLAND OF HAWAII																						
MAINA 214	78.4	64.0	71.2	1.1	87	8	60	25+	0	0	0	0	18.65	12.98	4.14	1	.0	0	18	9	6	
HAWAII VOLCNS NP HO 54	66.3M	53.5M	59.9M	.9	75	17	50	17+	0	0	0	0	23.22	13.04	7.71	27	.0	0	8	4		
HILO WB AIRPORT	82.1	68.6	75.4	2.2	85	19	64	23	0	0	0	0	21.25	7.88	5.41	25	.0	0	20	14	4	
HUEHUE 92A													2.05	.88			.0	0				
KAINALIU 73B	78.7	62.5	70.6		81	18+	59	13	0	0	0	0	4.93	.66	1.59	5	.0	0	8	3	2	
KAMUELA AIRPORT	71.6	56.4	64.0		75	20	50	25+	0	0	0	0	2.18	.54	2		.0	0	6	2	0	
KEAAU 92	81.8	65.2	73.5	.9	87	10	62	14	0	0	0	0	22.03	8.10	5.71	26	.0	0	21	15	8	
KEALAKEKUA 26.2	80.0	66.4	73.2		82	18+	62	26+	0	0	0	0	2.98	.82	5		.0	0	7	3	0	
KEHENA RESERVOIR 176.1													12.29	2.62	3		.0	0				
KONA AIRPORT 68.3	84.2	64.0	74.1		86	5+	62	30+	0	0	0	0	1.42	1.03	19		.0	0	3	1	1	
KUKUIHAELE HIC 199													16.00	9.24	3.36	1	.0	0	17	11	5	
KULANI CAMP 79	62.1M	48.1M	55.1M		69	7	39	14	0	0	0	0	18.40	7.50	27		.0	0	16	9	4	
MAUNA KEA BEACH	89.8	71.7	80.8		95	11	67	25	17	0	0	0	1.83	1.25	2		.0	0	2	1	1	
PAHALA 21	81.1	63.6	72.4	.6	86	6	59	15+	0	0	0	0	13.37	7.93	8.35	26	.0	0	5	2	2	
POHAKULOA 107													2.94				.0	0				
PUAKO 95A													1.22		.74	2	.0	0	3	1	0	
PUU WAAWAA 94.1													1.19	-.90			.0	0	0	0		
UMIKOA 118													29.54	23.14	11.07	3	.0	0				
WAIKOA SCD 88.2													31.58	6.32	27		.0	0	24	15	9	
ISLAND			70.0										11.95				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 95° ON THE 11TH AT MAUNA KEA BEACH, HAWAII

LOWEST TEMPERATURE: 30° ON THE 24+ AT MAUNA LOA SLOPE 085, HAWAII

GREATEST TOTAL PRECIPITATION: 48.00 INCHES AT PIHONUA 89, HAWAII

LEAST TOTAL PRECIPITATION: .12 INCH AT MALAUEA 676, LANAI

GREATEST ONE-DAY PRECIPITATION: 11.55 INCHES ON THE 25TH AT PH WAINIHA 1115, KAUAI

GREATEST REPORTED TOTAL SNOWFALL:

GREATEST REPORTED DEPTH OF SNOW ON GROUND:

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

Frequent heavy rains, flash floods, high surf, and lengthy periods of strong trade winds characterized the month's weather. Small craft warnings were in effect on 12 days. Seven flood and 3 high surf warnings were issued.

Heavy rains and strong easterly winds, associated with low pressure near the surface and aloft, struck Kauai during the late morning of the 24th, moved slowly southeastward through the island chain, reaching Hawaii Island early on the 26th, and then returned towards the west, prolonging the wet weather on Kauai.

On Kauai, heavy thunderstorms began during the forenoon of the 24th, causing the Hanalei, Wailua, and Hanapepe Rivers to overflow and pour over roadways. Sections of Hauala Road at Kapaa and Maluhia Road at Koloa were washed out. Power House Wainiha, a station in the mountains of northern Kauai, reported 7.25 inches in a 3-1/2-hour period on the early afternoon of the 25th and 3-1/2 inches from 12:40 to 1:40 p.m. on the 27th. The U. S. Coast Guard Station at Kilauea Point, Kauai, reported a gust of 85 m.p.h. between 3:00 a.m. and 4:00 a.m. on the 26th.

On Hawaii Island, intense rains were widespread over the eastern half of the island, where some upland locations in the Kau District recorded nearly 20 inches over a 2-day period, many gages reporting falls exceeding 1 inch an hour. The most severe damage was sustained by the plantation town of Naalehu, the southernmost town in the United States, where nearly 16 inches of rain fell, much of it between 3:00 p.m. on the 26th, and 6:00 a.m. on the 27th. The ensuing heavy runoff plugged the flood

control ditch with rocks and boulders estimated to weigh nearly a ton. The resulting flood waters, up to 3 feet in depth, coursed through adjacent houses leaving behind a layer of mud 3 inches deep. Damage to plantation land and facilities alone was estimated at \$46,500, and crop spoilage was extensive. Some local residents termed the flood the "worst in 40 years."

During the storm, snow, blown into 4-foot drifts by strong winds, fell on Mauna Kea Summit and extended down to the 11,000-foot level, causing some damage to the access road.

On Oahu, minor flooding in the leeward areas, particularly near Pearl City, overflowed the Salt Lake Boulevard bridge spanning Halawa Stream on the afternoon of the 24th; while on Maui, on the night of the 24th, heavy rains flooded Kahekili Highway, cutting off Waihee from Wailuku and the rest of the island.

Also worthy of note was the period of unusually strong trade winds from the 2d to the 11th caused by a strong High north of the Islands. Winds gusted to 30 and 40 m.p.h. in many areas and to 50 m.p.h. and more in a few higher, exposed locations. Waving tree branches, which contacted powerlines, resulted in several power outages. On 2,800-foot Mt. Kahili, Kauai, wind gusts estimated at nearly 100 m.p.h. by television personnel blew down two television antennae on the 4th. On the 7th, two plate glass windows were blown out in downtown Honolulu about 9:00 a.m., and a light plane was flipped over at Kamuela Airport, Hawaii, by 45-m.p.h. gusts. Honolulu Airport had its windiest month in at least 5 years. Scattered light crop damage was reported.

HAWAII - NOVEMBER 1967

SPECIAL WEATHER SUMMARY - Continued

Other events of interest included the lightning which shattered a telephone pole at Knudsen Gap, Kauai, on the 18th, knocking out power on the west side of the island; surf, up to 30 feet in height on Oahu's north shore on the 19th, in which two servicemen were drowned and many other persons rescued; and heavy rains, which flooded the post office at Honaunau, Hawaii, on the afternoon of the 20th, doing \$760.00 in damage.

About 80 percent of all island stations exceeded their average November rainfall. Most locations with below normal rainfall were located to the lee of the mountains.

Stations with 25 or more years of record, and that exceeded their previous monthly or 24-hour record totals for November, are listed below.

Stations Whose Previous Greatest November Rainfall Totals were Exceeded in November 1967

(25 years of record or more, only)

Station	Length of Record (Yrs)	Previous Greatest November Total	November 1967
KAUAI			
P. H. Wainiha	59	28.06	34.94
MAUI			
Puohokamoa 2	38	50.00	71.40
HAWAII			
Honomu Mauka	28	32.85	45.55
Ookala	76	29.47	29.79
Papaikou Mauka	41	34.60	41.58
Piihonua	41	43.00	48.00

Station Whose Previous Greatest 24-Hour Rainfall Total was Exceeded in November 1967

(25 years of record or more, only)

Station	Length of Record (Yrs)	Previous November 24-Hour Extreme	November 1967
KAUAI			
P. H. Wainiha	59	10.38	11.55

Saul Price
ESSA-Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

Russell Dorr
ESSA-Acting State Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
NOVEMBER 1967

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																		
ANAHOLA 1111	A	6.80		.03	.05	*	*	.25		.01	.01	.30	*	*	.18			.01	*	*	.40		.01	*	*	*	*	4.40	.65	.15	.35			
BRYCESWOOD STA 985	A	13.92	.01	.03	.25	*		.15	.04	.07	.19	*	*		.41			.45	*		.15		.08	*	*	*	*	.87	1.05	.48	.83			
EAST LAWA 934	A	8.20	.10	.03	.42	*		.15	.09	.10	.15	.13	*		.45	T		.53	*		.41		.06	*	*	*	*	.41	.35	.13	.95			
ELEELE 927	A	7.01		.04	.04	*		.06	T	.02	.11	.02	*		.06			.06	*		2.07		T	*	*	*	*	.40	.20	.07	.29			
HALEAUA 1110	A	6.31	.04	.07	.10	*		.15	T	.01	.01	.11	*		.12				*		.24		.01	*	*	*	*	.43	.49	.27	.39			
HALENAHAWA 1006	A	12.05	.21	.10	.48	*		.05		.07	.26	.17	*		.56			.03	*		.91	.08	*	*	*	*	*	.77	.21	.14	1.01			
HUKIPO 945	A	3.72																.05	.50		.16							.29	.09					
ILILILUA INTAKE 1050	A	25.59	.06	.10	.50	.02		.35	.10	.11	.50	.18	.50	.80		.12		.06	.32		.75	.34	.23	3.80	4.00	4.20	2.00	1.85	1.76	1.52	1.42			
INTAKE WAINIHA PC 1086	A	41.81	*	.35	*		1.30	.01	.48	*	.80	*			.95	*	*	.10	*		.50	*	.40	*	6.50	1.40	*	1.00	2.00	2.83				
KALIHUAI RES 1131	A	14.49	.03	.48	.23	*		.31	.04	.07	.25	.06	*		.84	.02	*		.78	.06	*	*	*	*	*	7.50	1.19	1.00	.67	1.07				
KANALOMULU 1075	A	11.13	.17	.32				.44	.47	.03	.12	.05	.09		.02			.16	.30		.08		.04	.18	.13	.30	5.00	2.15	.35	.14	.59			
KANEMA RESERVOIR 1092	A	13.77	.05	.31	.49	*		.31	.01	.05	.05	*			.98			.11	.06	*	*	*	.06	*	*	*	.83	.87	.54	.82				
KAPPA STABLES 1104	A	6.67	.10	.05	.15	*		.30		.02	.03	*			.12			.04	*		.22	.02		*	*	*	.43	.70	.20	.40				
KEALIA 1112	A	5.07	.07	.03	.09	*		.10		.01	.01	*	*		.06			.01	*		.34		.05	*	*	*	.35	.37	.07	.32				
KEKAHA 944	A	2.72													.13	.46		.15					.11	.28		.87	.67	.04	.01					
KILAUEA 1134	A	9.69	.23	.06	*			.18		.02	.05	.02	*		.41			*	.16			.02	*	*	*	6.00	1.03	.48	.30	.73				
KILAUEA FIELD 17 1135	A	12.34	.03	.43	.29	*		.19	.01	.06	.11	.03	*		.52	.01		*	.43	.09		.07	*	*	*	6.37	1.23	.99	.49	.99				
KILAUEA POINT 1133	A	9.77	.10	.12		.26		.05	.04	.25	.24	.30	.05		.06	*		.10			.05	.46	.23	1.85	1.81	1.60	.34	.15	.53	.18				
KOLO 1033	A	2.79													.39				.30		.01				.09	1.49	.81							
KOLOA 936	A	10.81	.12	.05	.39	*		.24	.06	.02	.19	.12	*		.44			.20	*		.35	.04	.12	*	*	*	.72	.27	.17	.78				
KOLOA MAUKA 994	A	16.02	.05	.15	.31	*		.18	.09		.29	.19	*		.90			.20	*		.55	.07	.07	*	*	*	11.08	.62	.32	.95				
KOLOKO RES 1137	A	11.17	.03	.15	.21	*		.15	.01	.01	.01	.01	*		.90			.50	*		.48	.18	.05	3.30		2.65	1.30	.94	.23	.86				
KUKUIULA 935	A	7.53	.01	T				.18	.02	.07	.02	*			.20			.50	*		.130													
LIHUE VARIETY STA	A	10.08	.15	.07	.19	*		.17	.03	.12	.16	.15	*		.22			.24	*		.26	.10	.03	.36	1.05	3.48	1.36	.88	.42	.21	.43			
LIHUE 1020	A	6.24	.07	.07	.15	*		.04	.03	.18	.05	*			.20		.01	.03	*		.40	.02	.02	*	*	*	.42	.09	.09	.52				
LIHUE WB AIRPORT	R	4.43	.01	.21	T		.01	.01	.01	.11	.01	.03	.17	.03	T	T		.01	.27	.02		.01	.05	.33	1.31	.46	.88	.08	.02	.29	.10			
MAKAHUNA POINT	A	5.13	.03	.10	.10		.01	.09	.02	.04	.07	.05	.09	T	T		.18	.44	.27	.11	.02	.44	.27	.15	1.76	.50	.12	.04	.05					
MAKANEI 965	A	4.22						.04		.01	.01							.51	.02		.05	*	*	*	*	.53	.52		.01					
MAKA 1024	A	1.64																.68	*			*	*	*	*									
MOMTAI UPR CROSS 1083	A																																	
MOLOAA 1145	A	5.11	.09	.12	*			.06	.03	.02	.03	.01	*		.23			.07	*		.26		.01	*	*	*	3.55	.27	.10	.33				
NIU RIDGE 1035	A	2.22																			.15													
N WAILUA DITCH 1051	A	26.46	.11	.22	.64	*		.39		.16	.37	.29	*		1.32						1.21	.48	.66	*	*	*	16.08	1.47	1.57	1.47				
PH WAINIHA 1115	A	34.94	.16	.49	.62	.01		.50	.01	.22	.14	.09	.36	.50	.01			.26	.10		.10		.20	.26	1.88	1.55	8.05	6.10	1.50	.53	1.30			
PRINCEVILLE RANCH 1117	A	17.65	.08	.17				.28	.03	.10	.07	*			.51						.67	.07		.18	2.00	7.29	3.04	.90	.88	.46	.92			
PUEHU RIDGE 1040	A	3.14																.11			.29						2.05	.69						
PUMI 1013	A	8.81	.25	.08	.23	*		.05	.01	.02	.24	.10	*		.27	.02		.02	*		.78	.12	.02	*	*	*	5.56	.14	.10	.80				
RESERVOIR 6 1004	A	13.55	.17	.16	.41	*		.11	.02	.28	.21	*			.50			.75	.02		.09	*	*	*	*		.89	.61	.24	.83				
WAIHANA 930	A	7.18		.14	*			.10	.03	.04	.08	.07	*		.14	T		.08			1.43		.02	*	*	*	.44	.21	.05	.39				
WAIHANA MOUNTAIN 990	A	26.50																																
WAIAMI LOWER 1054	A	17.59	.02	.08	.38			.25	.03	.11	.37	.13	.23	.48	.02			.20	.05	.21	.31	.25	1.75	4.50	1.05	3.41	1.80	.75	.39	.82				
WAIAMI UPPER 1052	A	21.75	.03	.54	.03		.04	.21	.24	.35	.15	.48	.52	.05				.03	.39	.01	.35	.40	.21	2.05	3.50	1.22	3.96	2.30	1.45	2.35	.89			
WAIANA 943	A	26.04																.11	.34															
WAILUA KAI 1065	A	5.66	.07	.15	*					T	T				.42			.09	.20		.31	.01	T	.08	.41	.45	.65	.91	.05	T	.01			
WALIMEA 947	A	3.17																																
WEST LAWA 931	A	9.45	.01	.27	*		.17	.07	.02	.14	.05	*		.32				.30	*		1.18	.02	.05	*	*	*	5.91	.26	.07	.61				
ISLAND OF OAHU																																		
AIEA FIELD 625 761	A	5.45		.05	*		.10	.06	.17	.08	.03	*		.59			.07	*		.22	.08	.18	*	*	*	3.20	.18	.08	.36					
BERETANIA PUMPING STA	A	3.31		T			.02	.03	.12	.07	.02	.15	.12					.07	*		.13	T	.08	.34	.72	.85	.28	.04	.05	.06	.16			
CAMP 550	A	5.10	.06	.03	.06	*		.10	.10	.15	.08	.05	.08	.26	T			.08	*		.10	.02	.10	.03	.95	1.43	.55	.06	.10	.13	.84			
CHURCH COLLEGE LAJE	A	4.58	.01	.05	.04	*	.05	.01	.05	.18	.01	*	.14	.05				.20			.16	.16	.14	.36	.19	2.10	.34	.05	.03	.26				
COCONUT ISLAND 840.1	A																																	
EWA PLANTATION 741	A	1.22		.04					.01						.05			.04	*		.19		.03	.09	.30	.10		.41						

DAILY PRECIPITATION

HAWAII
NOVEMBER 1967

Continued

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF MOLOKAI																																		
KALAUAPAPA 563	A	4.10	.05	.30	T		.20	.05	T	.10	.20	.10	.05	.70			.15		.05		.15		.50		.50				.80	T	.10	.10		
KAUNAKAKAI 536	A	.46																			.21								.21					
KEONELE PENS 551	A	1.46																			.07													
KALAUAPA 533	A	2.53	.01	.08	.27	*	*	.08	.02	.05	.05	.01	*	*	.33			.20	.55	.37	.15	.07	.22	.03	*	.48	*	*	.87	*.48		.16		
MAUPULEU 542	A	3.77	.08	.18				.03	.10	.05		.11	.15	*													.10	.20	.10	.25	.15			
MAUNALO 511	A	.63			.01	.11	*	.06	.04		.02	.02	*	.05	T			.27	.34			.02							*	.02		.01		
MOLOKAI AP 524	A	1.19				.26																										.10		
PUUOHOKU RANCH 542+1	A	4.62	.30	.17							.32	.14					.07	.55	.10		.05	.12			.08	.11	.03		2.80					
AIKOLU 540	A	15.62					8.15							3.35							1.48								2.64					
ISLAND OF LANAI																																		
KANEPUU 690	A	2.92	*	.25	*	*	*	*	*	.06																.57	*	*	*	*	2.04	*		
KAUMLAPAPA HARBOUR 658	A	1.14		.06														.06	*		.31	.06	.05	.16					.60	*				
LANAI CITY 672	A	4.31	.20	1.59	.10		.02																											
LANAIHALE 684	A	4.30	*	3.26	*	*	*	*	*	.09	*	*	*	*	*	*	.12	*	*	*	*	*	*	*	*	*	.65	*	*	*	*	.18		
MAHANA 694	A	2.77	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*													*	*	2.77		
MAHAUEA 676	A	.12	*	.04	*	*	*	*	*		.02	*	*	.02				*	*	*	*	*	*	*	*	*	.06	*	*	.02				
MAIAKAKUA 685	A	1.14	*	.77	*	*	*	.02	*	*							*	.07	*	*	*	*	*	*	*	*	*	*	*	*	*			
ISLAND OF MAUI																																		
AUWAHI-252	A	1.65																.03			.28	.04		.37	.48	.03	.38	.69	.82	.21	.60	.46		
HALEAKALA B E 5 434	A	15.54	.03	2.15	2.22	.98	.26	.03	.48	.18	1.77	.25	1.58	1.22							.04	*												
HALEAKALA RANCH 432	A	7.22	*	.91	1.26	.52	.08	*	.10	*	.96	.04	*	1.23							.07	*												
HALEAKALA RS 338	A	7.28	T	1.08	.72	.15	.01		.04	.05	.30	.07	.59	.67				.01	T		.14	T		.21	.38	.31	.58	.42	.48	.11	.36	.60		
HALEAKALA SUMMIT 338.4	A	5.35		1.05	.10				.04	.05		.05	.06							.15	.11		.04	.06	.32	.47	2.02	.45	.14	.10	.14			
HALLIMALE 423	A	7.17		.93	.76	*	*	.26	.18	.08	.75	.19	*	.97						*		1.54		.26	*	.19	*	*	.57	.06	.33	.10		
HANAKUPOKO 485	A	9.75	T	1.55	.41	.03	.02		.01	.33	.96	.36	.36	.37	.02						.47	.34	.01	.37	.36	.17	.88	1.58	.75	.20	.10	.10		
HANA 354	A	9.57	.25	.06					.05	.40	.08	.03	.15					.07	.04	.06			.31	.06	.50	.28	.61	.430	1.29	.18	.20	.65		
HANA AIRPORT	A	9.89	T	1.18	.02	.18	T		.05	.35	.86	.10	.10	.27	T			.02	.06	.02	.04		.05	.09	.06	.22	.23	.54	3.44	.48	.86	.18	.31	
HANAHULI 261	A	11.82	T	.65	.64			T	.01	.02	.46	.08	.13	.65				.07	.06			.38	.07	.46	.36	1.45	4.49	.28	.80	.51	.12	.19		
HOLUA CABIN 259.5	A	12.06	*	*	*	*	*			3.00	*	*	*	*	*	*	*	*	*	*	*	*	2.26	*	*	*	*	*	*	6.35	*	.65	*	
HONOKOHU 480	A	20.00	*	*	*	*	*																								20.00	*		
HONOKOHU 493	A	6.68	.02	.73	.09				.04	.04	.29	.07	*	.30				.02	*	*		.46	.24	.08	*	.57	*	1.28	.05	.02	.38			
HONOWANU GULCH 341	A	16.20	*	*	*	*	*																									16.20	*	
KAHOWA INTAKE 374	A	17.66	*	*	*	*	2.32																						10.15	*				
KAHULUI WB AP	A	1.69	.51	.30	.06		T		.01	.07	.01	.11	.18	.01							.08	T	T	T	.10	.01	.01	.05	.13	.02	.01	.01	.01	
KAILIHI 436	A	28.12	*	*	*	*	*																									28.12	*	
KAILUA 446	A	21.97	.07	2.86	.75	.14	.20		.01	.60	1.16	.43	.52	.60	.05	*		.19	.20	.01	.45	.70	.12	.12	.69	.64	2.81	4.50	2.15	.66	.04	.30		
KAUULA INTAKE 375	A	7.67	*	*	*	*	1.74																											
KEAHUA 410	A	2.23	T	.31	.13	.05			.06	.01	.22	.01	.22	.21							.58	.01		.07	.01		.06	.18	.05		.05	.02		
KEANAE 346	A	34.27	*	*	*	*	*																									34.27	*	
KEAWAKAPU BEACH 260.2	A	.31		.05																												.10		
KIHEI 311	A	.47		.26	T																											.20		
KIPAHULU 258	A	13.61		.12	.77	.14			.27	.64	.20	.17	.68				.04	.21	.04		.01		.18	.07	.03	.32	.60	2.26	4.83	.84	.34	.19	.10	.57
KULA HEIGHTS 323.2	A	1.98		1.13	.15	.04																												
KULA SANATORIUM 267	A	2.93		.78	.01									T							.01							1.36	.70	.07	T			
LANAIHA 361	A	.42		.01																	.12				.02				.10					
LAUNIPUPO INTAKE 376	A	6.60	*	*	*	*	*														.12	*										6.60	*	
LAUNIPUPO VILLAGE 372	A	.51		.18																	.03	*							.12					
LUPU UPPER 442	A	30.00	*	*	*	*	*																									30.00	*	
MAHINAHINA 466	A	6.31	*	.90	.40	.10			.07	.12	.04	.41	.55								1.16	.14	.09	.26			.97	.05	.60	.07	.05	.12		
MAKALELE -FD 60-497	A	3.09	*	*	*	.68			.05	.02	.51	*	*	.54	*						.19	*		.06	*	.24	*	.97	.05	.60	.07	.05	.12	
OLINOA 332	A	.29	.01	.77	1.16		1.72								1.72	.01	T				.09	*								1.74	.04	.17	.16	
OLOVALU 296	A	.01		.15																														
OLOVALU GULCH 377	A	8.00	*	*	*	*	*																									8.00	*	
PAAKEA 350	A	25.73	.15	4.37	1.05	.58	.11		.44	.38	1.96	.58	.70	.65	.07	.05	.12	.30			.64	.80	.59	1.43	.86	1.70	1.78	1.54	1.80	1.13	.25	1.10		
PAIA 406	A	4.69	.01	1.21	.17	T			.17	.17	.39	.10	.40	.22	T						.57	.06		.29	.14	.09	.11	.30	.12	.13	.16	.05		
PANILEIHALU 259.2	A	14.25	*	*	*	*	*																									14.25	*	
PANIELA 490	A	14.01		1.86	.22		.15		.03	.52	1.07	.27	*	.82	.03			.02	*			.56	.21	.38	*	*	*	7.29	.25	.12	.21			
POHAKA BP10GE 307.2	A	1.61		.62	.09	.03						.01	.01										.02				.79	.04						
POLIPOLI SPRINGS 267.2	A	6.67	.40	*	*	*	*		.21	*	*	*	*	*	.22	*					.09	*	*	*	*	*	*	*	*	5.75				
PUUOHOKU 2 343	A	71.40	*	*	*	*	*																									71.40	*	
PUU KUKUI MAKA 472	A	18.40	*	*	*	*	*																											

DAILY PRECIPITATION

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Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAMUELA 192.2		4.43	.56	.48	1.25	.67	.11	.28	.14	.02	.08	.07	.08							.02	.01	.02	.03	.07			.23	.31		.01				
KAMUELA AIRPORT		2.18	.12	.54	.52	.13	.04	.05	.04	.03	.02	T	.01	.06	.01	T					.01	.02	T	.05	T		.01	.29	.21	.02	T			
KAPAPALA RANCH 36		12.11									.02																							
KAPOHO LANDING 935		9.38			1.47						.120									.02	.02													
KAUMANA 88.1	A	33.39	2.40	2.00	3.11	2.15	.10	.19	.75	.27	1.60	1.38	.85	.68	.03	.05	.02	.03	.04	.02	.12	.76	.72	1.36	1.38	.40	.22	5.20	5.12	1.16	1.90	.38		
KAWAIIUI LOWER 193	A	10.33			2.83						4.37								2.43															
KEAAU 92		22.03	1.54	.54	1.10	1.13	.13	.08	.38	.18	.59	1.33	.64	.78	.06		.08	.02		.07	.33	1.34	.61	.80	1.12	.02		5.71	1.81	.91	.38	.35		
KEALAKEUA 26.2		2.98	.23	.01	.53		.82				.03			.05							.14	.01	.32					.59	.05			.06		
KEHENA 181.2		17.20																																
KEHENA RESERVOIR 176.1	A	12.29	1.24	1.77	2.62			2.11	1.02	.09	.09	.14			1.04	.01	.01		.09			.24	.13	.24					.78	.10	.56	.01		
KIOLAKAA A 7 F 6	A	14.45																																
KIPA 89.2	A	36.60	1.20	2.00	3.88	1.74	.18	.50	.90	.21	.46	2.15	.95	.57	.13	.01	.02	.01	.02	.92	.21	1.34	1.34	.81	1.16	.21	.52	3.90	7.15	1.45	2.10	.56		
KUKAIAU 222	A	6.42	.21	1.07	.88			.57	.18	.01	.15	.07			.46	.01	.06	.02			.31	.13	.65						1.17	.01	.44	.02		
KOHALA MAULILI 176	A	9.04	.34	1.39	1.38			.88	.24	.03	.18	.20			1.19	.01	.02	.08	.07		.18	.51	.47						1.22	.50	.15			
KOHALA MISSION 175.1	A	7.43	.21	1.27	.94	.45	.17	T	.21	.05	.20	.10	.09	.45	.03	.01	.01	.08	.05	T	.10	.17	.28	.69	.16	.05	.03	.28	.82	T	.52	.02		
KOTAHAE LOWER 196	A	5.67			1.60																													
KONA AIRPORT 68.3		1.42	T	.10	.05		.05	.02				2.80								.85								.42						
KUKAIAU 222		26.83	6.00	1.75	1.35	2.18	.37	.02	.84	.20	.26	.68	.63	.27	.28					.11		1.03		.03				.02	.01					
KUKUIHALE HIC 199		16.00	3.36	2.15	1.97	1.76	.61	.08	.58	.12	.01	.32	.68	.14	.72						.25	.05	.08	.25	.35		.97	2.57	5.06	.22	1.18	.02		
KUKUIHALE MILL 206		14.26	3.27	2.10	1.29			2.26	.47	.17		.04			1.22							.32	.15	.35					2.02	.02	.58			
KULANI CAMP 79		18.40	.76			.57	.15	.19	1.90	.16	.54			.09				.09		.10	.10			.20	.10	.58	.50		7.50	2.35	2.40	.22		
KULANI MAUKA 76	A	10.92	.36	.48	.24	.10		.20	.05	.20	.13		.06	.13							.05													
KULANI SCHOOL SITE 78	A	25.90		2.00																														
LANIHAU 68 C	A	4.06	.08	.94	.10	.24	.35	.02				.21	.06		.26						.12		.82											
MAUKA 2	A	7.31	.98	1.00	.01				2.02		.19										.06									1.4	.04	.24	.44	
MAUNA KEA BEACH		1.83		1.25																														
MAUNA LOA SLOPE OBS		4.57	.19	.11																.02	.08	.30						.08	.06					
MIDOLE MOULALOA 68.1		3.52	.37				.75					.08	.04																					
MIDOLE PEN 147.1	A	2.57			.22															.17	1.96				.05	.16		.28	3.78					
MOAULA 18	A	14.42																		2.00									.13	.02				
MOUNTAIN VIEW 91		31.98	2.14	.38	3.09	2.27	.28	.16	1.15	.09	.39	1.00	.82	1.02	.07	.04	.07	.04	.03	.03	.15	.62	.49	1.49	1.51	.03		7.70	2.44	1.46	2.50	.52		
NAALEHU 14	A	16.78	.12	.01	.02															.03	T													
NAPOOPOO 28	A	2.06					1.24								.15						.03													
NAULU FOREST 38.6	A	12.39	.06		.28				.20	T	.02			.34						.12														
NIULII 179	A	7.74	.16	1.43	.83			.80	.17	.02	.25	.12			1.02					.03														
OAKALA 223		29.79	5.10	2.65	1.62	1.29	.34	.03	.63	.27	.35	.49	.46	.32	.33	T					.09	.43	.24	1.41	.54	.09	.58	3.93	6.75	.61	1.18	.06		
OPHIHALE 2 24.1	A	1.27	.11	.05	T	T								.21	T						.12	.06	T			.08	.15	.36	.04	T	.09	T		
ORCHIO LAND EST 91.5	A	12.68			2.86						2.39																							
PAALUHAU 217		17.79	3.59	2.03	1.44	1.71	.30	.02	.66	.18	.01	.38	.73	.22	.34					3.07														
PAALUHAU 221		22.85	5.68	1.40	1.88	2.35	.30	.02	.76	.11	.16	.46	.60	.19	.11	T					.05	.16	.22	.43	.44	.02	.90	3.72	.08	.36				
PAHALA 21		13.37	.15	.02																	.01	.10												
PAHOA 65		19.06	1.60	.26	.31	.79	.09	.06	.52	.07	.32	.79	.69	.84	.06		.05	.18	.16	.08	.38	1.54	.42	1.12	.82	.02		4.21	1.33	1.27	.69	.53		
PAKAO 37	A	12.12																																
PAPAIOU 144A		29.67	2.12	1.56	1.19	.47	.16	.05	.37	.10	.88	1.30	.97	.29	.23	.01	.15	T			.08	1.24	.22	.79	.56	1.40	.08	7.75	4.63	1.15	1.21	.71		
PAPAIOU MAUKA 140.1		41.58	1.86	1.69	3.71	1.72	.23	.10	.93	.38	.64	1.71	1.52	.74	.27		.07	3.01			.07	1.52	1.35	.82	.35	.91	.29	6.52	6.65	1.61	1.84	1.07		
PEPEEKEO MAKAI 144		26.27	2.50	2.25	.33	.59	.14		.52	.54	.95	.55	.18	.14	.12		.10	.03		.10	.05	.60	.30	.40	.89	1.39	.03	7.50	3.33	1.58	.84	.32		
PIIHONUA 89	A	48.00																																
POHAKULOA 107	A	2.94				.75	.02																											
PUAKO 95A	A	1.22		.74	.02															.01									2.15					
PUU KIHAE 120	A	17.23																			.01								.17	.06				
PUU LAU 102.1	A	1.54																																
PUU LEHUA 73	A	2.10																																
PUU MALI 113	A	5.57																																
PUUKUMAU 167		8.18	.35	1.46	1.63			.76	.31	.12	.12	.21			1.06	.01																		
PUU OO 82		18.04	.24	.65	.32	.17	.10	.03	.04	.13	.40	.34	.05	.07	.02	.05	.04	.02	.23	.03	.08	.40	.17	.18	.34	.22	.02	3.65	7.45	1.20	1.30	.10		
PUU WAHAA 94.1		1.19	T		.01										.05							.38												

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Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
15LANO OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	69 53	72 52	63 55	61 54	62 50	65 52	64 54	68 56	70 58	64 58	65 56	70 54	68 45	67 40	69 42	70 45	69 45	70 51	73 54	69 53	70 46	66 50	66 52	62 55	62 56	62 57	61 57	64 58	63 55	65 55	66.3 52.3	
KILAUEA POINT 1133	MAX MIN	85 70	80 72	81 70	79 72	80 68	80 71	80 70	80 74	82 70	80 65	79 73	80 71	82 69	82 66	82 69	83 67	84 68	84 72	85 73	82 70	80 69	82 66	82 67	76 68	78 65	75 64	76 72	79 69	77 65	78 69	80.4 69.1	
LIMUE WB AIRPORT	MAX MIN	82 70	82 70	81 73	81 72	81 72	81 71	82 71	82 70	83 73	80 71	80 71	81 73	81 73	81 66	82 68	80 65	80 64	80 65	83 67	82 74	81 73	80 71	76 69	74 67	77 67	75 71	76 71	79 71	77 69	78 69	79.9 69.9	
MAKAHUEA POINT	MAX MIN	83 70	84 71	84 73	83 73	84 70	82 71	81 70	83 73	84 70	84 72	82 73	82 72	84 73	85 70	83 70	84 69	84 71	84 71	85 72	84 74	83 72	81 70	80 70	81 72	80 69	78 70	79 71	79 71	79 69	82.4 71.1		
MANA 1026	MAX MIN	88 65	88 65	88 64	87 63	86 63	85 62	88 65	87 64	86 63	90 66	84 65	86 63	86 63	82 64	84 65	86 61	86 63	86 64	85 65	86 65	86 65	84 62	83 62	82 73	83 70	81 68	78 69	79 65	83 65	85 64	84.9 64.9	
NIU RIDGE 1035	MAX MIN	80 65	85 65	82 63	82 60	83 61	84 60	85 62	84 64	85 64	85 65	84 63	84 63	81 62	81 63	82 63	85 63	85 65	84 65	85 63	85 63	76 62	80 64	78 63	79 65	78 64	79 65	80 64	79 64	82 63	82.4 63.3		
WAIAMI LOWER 1054	MAX MIN	79 61	78 65	78 62	79 62	78 62	77 66	78 63	78 65	79 69	77 66	77 65	77 63	79 62	80 58	77 62	79 61	81 61	79 61	81 61	79 64	79 64	78 62	78 65	74 65	79 64	77 63	74 67	75 67	74 66	77.8 63.3		
15LANO OF OAHU																																	
EWA PLANTATION 741	MAX MIN	85 69	86 70	84 69	83 68	83 69	84 70	82 71	85 69	84 72	84 71	83 68	85 66	83 65	82 61	83 63	86 66	80 67	83 65	86 65	84 67	83 64	82 65	82 66	81 67	84 67	77 67	78 68	84 72	81 71	81 69	82.9 67.6	
HONOLULU WBAP 703	MAX MIN	85 71	86 74	85 74	85 73	85 73	85 73	84 72	86 71	87 73	86 73	85 72	85 73	84 70	85 65	85 72	84 69	81 71	83 69	86 69	85 71	83 70	83 70	83 70	85 70	80 70	82 71	82 72	82 70	82 71	84.1 71.1		
HONOLULU SUBSTA 704	MAX MIN	80 72	81 72	80 72	80 73	79 73	80 69	80 68	80 69	81 68	81 68	81 71	80 68	80 70	80 71	83 73	80 71	81 71	84 73	82 73	80 71	80 69	79 69	79 69	79 70	78 72	79 70	78 70	79 71	80.3 70.7			
KAHUKU 912	MAX MIN	84 74	82 73	83 72			82 71	82 70	81 72	82 74	82 72			82 70	82 72	82 73	83 71	83 70		83 65	83 73	83 69	83 69					83 70	83 71	81 68	82.3 71.0		
KANEOME MAUKA 781	MAX MIN	71 65	74 67	76 66	75 66	72 63	69 67	70 65	76 67	73 66	72 67	73 65	71 65	72 67	73 64	74 65	70 64	71 61	75 63	74 64	74 63	74 63	75 64	72 69	74 68	73 66	70 60	71 59	71 61	72 63	72.7 64.5		
MAKAPUU POINT 724	MAX MIN	80 69	79 73	79 68	79 73	78 70	77 72	77 74	77 72	78 73	79 73	77 71	77 71	77 71	77 71	77 71	78 69	78 70	81 72	80 72	78 72	77 69	77 71	77 70	77 71	77 70	76 71	76 68	76 72	76 70	78.1 71.1		
OPAUELA 870	MAX MIN	80 63	80 67	80 66	78 66	78 67	78 67	75 65	75 67	77 68	78 68	75 69	75 65	78 68	79 69	77 62	80 65	81 65	89 68	84 66	80 66	80 62	77 65	80 65	80 66	77 67	80 67	77 66	73 66	75 66	71 64	78.2 65.6	
PR1 WAIHAWA 820.2	MAX MIN	84 67	81 68	83 68	82 69	79 68	82 68	81 68	80 68	82 69	80 68	82 66	75 66	81 65	80 58	83 58	83 62	80 64	80 62	85 62	83 62	80 63	79 65	78 65	78 66	79 65	80 66	77 66	81 66	77 66	80.6 65.3		
WAIALUA 847	MAX MIN	84 67	80 67	84 65	81 66	81 68	81 71	82 66	81 68	82 71	83 69	82 71	81 67	83 67	81 62	81 58	84 62	85 66	82 65	83 64	84 64	84 62	81 62	81 64	79 66	80 65	78 69	76 69	78 69	81 69	79.4 66.0		
WAIKIKI 717.2	MAX MIN	89 71	87 73	87 72	86 72	87 70	90 72	85 72	84 70	86 70	85 74	86 71	85 70	86 69	86 70	86 70	87 65	87 69	82 67	86 68	87 69	86 65	85 70	83 69	84 67	83 65	86 68	79 67	83 62	83 70	81 67	85.2 68.9	
15LANO OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	84 71	78 70	83 70	82 71	79 71	78 71	80 71	80 72	83 70	81 71	82 70	78 70	79 69	82 64	77 64	80 70	82 69	81 68	81 68	84 72	81 72	82 70	79 66	78 66	79 67	78 67	80 71	80 73	79 68	81 68	80.4 69.6	
15LANO OF LANAI																																	
LANAI CITY 672	MAX MIN	76 67	76 67	77 68	74 67	73 66	73 65	75 64	77 64	76 65	77 65	76 65	76 66	78 64	76 61	76 64	77 63	76 65	75 64	77 62	77 63	77 65	79 64	78 64	78 63	77 64	75 65	77 67	75 65	74 64	76.0 64.8		
15LANO OF MAUI																																	
HALEAKALA R5 338	MAX MIN	64 45	61 49	63 50	61 39	60 39	61 43	54 43	59 45	62 48	60 46	59 44	56 44	63 38	59 40	62 43	63 41	62 42	57 43	58 46	64 48	65 39	59 44	55 45	57 43	59 43	61 48	54 46	58 47	61 41	53 42	59.7 43.8	
HALEAKALA SUMMIT 338.4	MAX MIN	49 44	50 42	45 37	49 37	46 32	56 37	54 35	63 43	51 40	52 41	49 40	49 42	51 40	61 44	52 42	55 43	64 37	53 38	47 38	52 39	57 38	49 34	49 34	49 34	45 37	48 39	44 38	45 35	44 33	45 33	50.8 38.5	
HANA AIRPORT	MAX MIN	83 69	82 72	83 74	80 72	81 75	82 73	83 74	82 69	80 70	82 71	82 72	80 71	80 74	80 66	80 74	81 70	82 73	81 73	82 74	82 72	82 67	78 69	78 69	78 69	76 68	78 75	79 70	78 69	78 68	80.5 71.1		
KAHULUI WB AP	MAX MIN	79 71	82 70	83 71	82 68	83 69	81 69	82 71	81 69	82 69	81 71	81 69	81 69	80 59	85 58	81 64	80 63	80 66	85 63	84 71	82 68	80 68	81 65	81 63	83 65	76 68	78 68	81 68	80 69	80 69	81.5 67.1		
KAILUA 446	MAX MIN	82 64	82 64	82 64	74 64	75 64	76 64	78 68	74 64	76 64	76 64	77 64	75 64	76 64	78 64	77 64	77 63	79 62	78 63	82 63	82 63	78 63	76 64	76 64	74 64	76 64	74 64	76 64	75 63	77.1 63.8			
KULA SANATORIUM 267	MAX MIN	71 60	74 60	76 60	72 58	74 57	74 53	73 53	72 54	74 58	74 57	74 57	74 55	71 53	71 52	72 53	71 55	69 56	68 56	74 58	72 56	72 54	71 54	72 55	71 56	71 56	79 57	69 58	69 55	72 54	72.3 56.0		
LAHAINA 361	MAX MIN	86 71	88 70	88 71	87 67	88 70	88 65	88 71	87 69	88 72	88 67	88 67	88 66	85 66	84 65	85 65	82 68	84 69	84 66	87 70	86 66	85 68	84 68	84 68	84 69	84 74	84 74	84 74	87 69	87 71	86.1 68.6		
WAILUKU 392	MAX MIN	80 67	79 67	84 67	83 67	83 68	82 66	84 69	84 65	83 66	83 68	84 66	82 65	82 66	84 65	84 65	84 62	82 64	84 64	89 64	85 68	84 66	83 64	81 66	83 66	76 64	85 72	77 67	75 67	82 66	81 66	82.4 66.1	

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DAILY TEMPERATURES

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Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	72	79	73	72	75	75	83	87	79	79	78	78	78	78	80	81	80	81	83	81	80	76	76	80	76	82	71	79	79	80	78.4	
	MIN	64	66	67	63	63	68	64	64	66		63	64	63	61	62	66	63	63	64	65	65	64	64	62	60	60	63	64	66	65	68	64.0
HAWAII VOLCNS NP HQ 54	MAX	68	70	71	66		68	65	62	66	66	63	63	68	68	71	67	68	75	72	66	71	68	62	62	65	66	67	61	62	61	62	66.3
	MIN	58	58	58	54		54	54	54	53	54	55	51	52	50	52	55	50	55	54	55	52	51	52	52	52	52	51	56	56	52	52	53.5
HILO WB AIRPORT	MAX	83	83	83	81	82	84	82	82	81	83	82	83	81	82	83	84	84	83	85	82	81	80	81	82	82	80	83	82	81	77	82.1	
	MIN	72	72	74	70	71	70	69	67	70	69	71	69	68	66	68	70	65	69	68	70	67	66	64	66	66	68	70	68	65		68.6	
KAINALIU 738	MAX	78	80	81	79	79	80	80	79	79	79	79	80	78	79	79	77	75	81	77	79	79	79	78	79	80	78	75	79	79	76	78.7	
	MIN	65	64	62	62	61	61	60	64	63	64	63	63	59	61	61	61	62	64	63	64	63	61	60	61	62	64	64	65	64	63	62.5	
KAMUELA 192.2	MAX	71	70	70	67	65	69	70	70	70	72	72	70	71	71	72	73	75	73	77	76	71	70	69	73	75	77	67	70	70	69	71.2	
	MIN	61	60	62	60	59	59	59	58	60	60	59	58	59	58	57	58	54	54	56	56	56	56	57	53	50	53	60	59	59	55	57.5	
KAMUELA AIRPORT	MAX	71	73	71	72	71	70	72	68	72	72	71	71	72	71	72	72	72	74	75	72	71	70	74	74	73	69	70	71	70		71.6	
	MIN	59	60	60	58	57	56	59	58	58	61	59	56	57	52	50	55	54	55	56	56	57	56	56	52	50	55	59	58	57	56	56.4	
KEAAU 92	MAX	76	83	78	83	83	83	82	82	83	87	81	81	81	80	81	82	83	84	84	84	81	80	83	83	83	83	83	83	80	78	79	81.8
	MIN	69	69	69	66	66	66	66	65	63	67	65	65	65	62	65	65	65	65	65	65	65	64	63	63	63	63	63	68	65	65	65.2	
KEALAKEKUA 26.2	MAX	79	81	81	82	81	81	82	81	82	81	82	82	80	80	81	79	77	82	78	81	80	80	79	80	81	79	75	80	79	77	80.0	
	MIN	68	67	65	65	65	65	73	71	70	73	71	69	62	65	64	66	62	66	63	66	65	70	63	66	63	62	65	70	66	65	66.4	
KOHALA MISSION 175.1	MAX	78	81	75	77	79	78	80	77	79	78	78	78	78	79	79	80	80	81	84	81	79	76	76	77	79	83	78	76	76		78.6	
	MIN	69	69	70	65	66	68	66	68	67	67	65	66	67	67	68	65	67	67	68	66	66	65	66	65	64	66	67	69	66	67	66.7	
KONA AIRPORT 68.3	MAX	85	84	85	86	86	85	84	85	85	85	85	84	84	85	85	83	84	81	84	83	84	83	84	84	83	85	84	84	84	84	84.2	
	MIN	68	67	65	65	65	66	66	64	64	64	64	64	65	63	63	64	62	63	64	65	62	63	62	62	64	64	63	63	63	62	64.0	
KULANI CAMP 79	MAX	64	64	65	65	62	68	69	58	60	60	61	64	64	62	60	60	63	68	64		60	62	60	66	63	55	57	56	58		62.1	
	MIN	51	52	55	50	48	48	49	48	50	49	49	45	45	39	47	46	46	45	44		48	45	46	54	53	49	50	48	48		48.1	
MAUNA KEA BEACH	MAX	91	88	88	92	91	91	90	90	94	94	95	93	93	89	91	91	87	86	86	88	88	93	91	92	85	86	83	92	89	88	89.8	
	MIN	75	72	73	81	74	75	71	74	75	74	71	68	70	68	70	69	69	69	69	74	72	70	71	68	67	69	68	75	76	72	71.7	
MAUNA LOA SLOPE 085	MAX	52	48	50	52	51	54	53	54	52	51	54	53	53	53	56	56	50	45	50	50	47	44	46	44	44	44	48	49	51	48	50.1	
	MIN	36	37	34	31	33	32	35	38	38	37	33	34	36	35	36	36	34	33	35	34	30	31	30	32	35	36	35	33	31		34.0	
MOUNTAIN VIEW 91	MAX	71	76	73	73	75	73	74	74	74	74	75	76	77	75	77	77	77	81	76	78	75	72	71	72	77	75	75	74	71	71	74.6	
	MIN	64	63	64	61	59	62	62	60	60	62	62	60	58	56	59	59	56	56	59	62	60	58	58	58	58	62	63	63	61	59	60.1	
NAALEHU 14	MAX	79	83	84	84	84	84	82	82	81	81	81	81	81	81	81	81	81	81	83	81	79	79	79	79	79	79	82	77	79	80	81.0	
	MIN	70	67	68	68	65	65	69	70	69	69	69	69	66	65	67	66	67	67	67	67	65	64	64	64	64	64	66	67	69		68.7	
OOKALA 223	MAX	74	81	78	76	78	78	81	79	80	80	70	69	80	79	79	82	80	78	78	81	80	78	79	80	79	80	73	78	77	78	78.1	
	MIN	69	68	68	66	69	68	66	67	65	66	66	65	65	67	67	68	67	74	77	67	66	65	66	67	65	65	65	67	67	68	67.2	
OPIHIHALE 2 24.1	MAX	78	78	79	79	76	77	71	79	81	79	76	78	76	77	77	76	80	77	79	75	77	76	77	78	76	72	77	78	76	73	76.9	
	MIN	64	63	61	61	60	61	59	60	60	60	60	56	57	58	58	58	59	59	60	59	57	56	56	58	59	62	62	63	61	58	59.5	
PAHALA 21	MAX	78	83	84	85	83	86	85	82	83	82	85	85	80	79	80	80	80	82	78	79	79	80	79	81	82	80	76	78	78	81	81.1	
	MIN	66	65	65	66	65	66	66	66	67	68	65	64	66	65	64	60	62	62	65	61	60	60	62	62	62	62	65	65	66	68	63.6	
UPOLU POINT USCG 159.2	MAX	84	83	82	83	82	82	82	80	81	82	81	80	82	84	81	82	87	86	87	82	81	78	79	80	83	85	85	81	81	79	82.2	
	MIN	69	69	70	68	67	71	67	69	69	68	69	68	68	68	68	68	69	69	70	67	72	66	66	66	66	64	69	69			68.3	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *	ISLAND OF KAUAI																																
LIHUE WB AIRPORT	EVAP	.18	.31	.34	.41	.42	.32	.41	.28	.31	.33	.34	.30	.25	.21	.24	.26	.11	.14	.23	.10	.18	.35	.22	.28	.24	.24	.26	.16	.25	.22	7.89	
	WIND	112	149	138	227	220	243	254	223	142	197	241	197	93	55	111	70	157	59	37	91	107	129	155	155	119	247	206	180	232	256	4802	
	MAX	79	85	83	81	82	82	82	81	82	82	82	82	83	85	82	85	84	85	92	92	87	85	80	77	72	78	76	75	75	77	81.8	
	MIN	65	67	65	64	64	66	65	66	67	68	67	66	66	64	65	64	64	65	67	68	67	66	66	67	66	66	66	66	66	66	65	65.8
* * *	ISLAND OF OAHU																																
HONOLULU OBSERV 702.2	EVAP	.18	.20	.24	.29	.29	.30	.24	.19	.32	.28	.03	.24	.22	.17	.16	.26	.07	.08	.15	.21	.18	.16	.13	.18	.07	.10	.10	.13	.22	.20	5.59	
	WIND	27	34	51	56	52	65	72	61	78	73	54	47	31	24	31	23	20	10	17	24	29	30	33	29	15	16	50	69	79	1285		
	MAX	90	89	90	88	87	86	85	83	87	86	-	86	88	86	86	88	88	84	90	91	87	85	85	86	83	86	77	78	84	81	85.9	
	MIN	69	69	69	69	69	67	66	67	69	69	-	68	66	65	65	67	69	70	68	69	67	67	68	69	69	70	69	69	67	67	68.0	
* * *	ISLAND OF HAWAII																																
HILO WB AIRPORT	EVAP	.03	.04	.22	.14	.17	.17	.17	.11	.01	.29	.20	.07	.13	.13	.18	.21	.17	.08	.14	.11	.16	-	.10	.10	-	-	.03	.14	.15	.29	4.168	
	WIND	39	53	142	100	118	80	64	57	46	75	66	56	49	50	55	75	77	48	58	53	51	38	20	15	37	65	32	39	28	25	1747	
	MAX	88	82	82	78	80	86	84	82	78	85	82	82	82	78	81	83	84	84	83	85	86	80	78	80	79	75	72	81	78	80	77	81.1
	MIN	69	71	71	68	67	67	67	65	67	67	65	67	66	64	65	68	64	69	65	68	66	65	63	65	65	66	67	66	66	65	66.6	

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HAWAII
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													NOVEMBER 1941												
STATION	INDEX NO	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTE)										TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTE)	
[ISLAND OF HAWAII]																									
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A		PUNA SUGAR CO	PUU KIME 12U	A 8393	01	HAMAKUA	3	19 54	155 24	7750						KUKAIUA RANCH CO
MAALEHU 14	A 6598	03	KAU	4	19 04	155 35	673	8A	8A		HUTCHINSON SUGAR CO	PUU LAHU 102.1	A 8452	05	HAMAKUA	5	19 50	155 36	7440	MO	MO				SLATE DIV OF FISH-GAME
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395	7A	7A		KONA EXPERIMENT STA	PUU LEHUA 71	A 8460	04	N KONA	4	19 34	155 49	4850	MO	MO				GREENWELL RANCH
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400	VAR			HAWAII VOLCANOES NAT PK	PUU MAHI 113	A 8515	01	HAMAKUA	3	19 55	155 26	6960	MO	MO				KUKAIUA RANCH CO
NIULI 179	A 6806	01	N KOHALA	1	20 14	155 45	75	6A			KOHALA SUGAR CO	PUU KUMU 167	8548	01	N KOHALA	2	20 12	155 20	1800	7A	7A				KOHALA OTICH CO LTD
OKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A		LAUPAHOEHOE SUGAR CO	PUU OO 82	A 8550	02	S HILO	2	19 44	155 23	6340	MO	MO				OLLINGHAM RANCH INC
OPINIHAE 2 24.1	7186	04	S KONA	4	19 16	155 53	1270	7A	7A		MISS C LEONARD	PUU WAHAKA 94.1	8555	04	N KONA	4	19 47	155 51	2520	7A	7A				BOARD OF WTR SUPPLY
ORCHID LAND EST 91.5	7185	02	PUNA	2	19 34	155 00	445	VAR			BOARD OF WATER SUPPLY	PUU WAI 1	A 8590	02	S HILO	2	19 42	155 12	2340	WM	WM				HUTCHINSON SUGAR CO
PAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415	7A	7A		PAUHAU SUGAR CO	SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	305	W1	W1				FEDERAL ELECTRIC CORP
PAUULO 221	7312	01	HAMAKUA	1	20 03	155 22	800	7A	7A		HAMAKUA MILL CO	S POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	305						
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A		HAWAIIAN AGR CO	UIHIKA 18	8780	01	HAMAKUA	3	19 59	155 23	3420						KUKAIUA RANCH CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670	6A	6A		PUNA SUGAR COMPANY	UPOLU WTR USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	51	8A	8A				S O COAST GUARD
PAKA 37	A 7643	03	KAU	3	19 22	155 28	5000	MO			HAWAIIAN RANCH CO. INC.	WAIKAE 80 88.6	902	02	S HILO	2	19 40	155 08	1050						WAIKAE RANCH
PAPAIOU 144A	7711	02	S HILO	2	19 47	155 06	200	7A	7A		MAUNA KEA SUGAR CO.	WAIKANGONGULA 172.2	9350	01	N KOHALA	3	20 08	155 47	3830						KAMUA RANCH
PAPAIOU MAUKA 140.1	7723	02	S HILO	2	19 47	155 08	1270	7A	7A		MAUNA KEA SUGAR CO.														
PEPEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100	7A	7A		PEPEKEO SUGAR CO														
PIIMOUNA 89	A 8051	02	S HILO	2	19 44	155 10	1730	MO			STATE DIV OF FORESTRY														
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511	VAR			STATE DIVISION OF PARKS														
PUKO 95A	8186	05	KOHALA	5	19 59	155 50	5	6A	6A		WILLIAM PAYNE														

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII												
PUU KIME 120	A 8392	01	HAMAKUA	1	19 54	155 24	7750		MO			KUKAIU RANCH CO
PUU LAU 102.1	A 8452	05	HAMAKUA	5	19 50	155 36	7440		MO			STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8465	04	N KONA	4	19 34	155 49	4650		MO			GREENWELL RANCH
PUU MALI 113	A 8513	01	HAMAKUA	1	19 55	155 26	6960		MO			KUKAIU RANCH CO
PUUOKUAU 167	8548	01	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82	8550	02	S HILO	2	19 44	155 23	6340		6A			W. W. SHIPMAN, LTD
PUU WAHAA 94.1	8555	04	N KONA	5	19 47	155 51	2520		7A			OILLINGHAM RANCH INC
SADDLE ROAD 1 84	8590	02	S HILO	2	19 44	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8679	03	KAU	3	18 57	155 41	400		WJ			HUTCHINSON SUGAR CO
5 POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	305					FEDERAL ELECTRIC CORP
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53		1	8A	8A		U. S. COAST GUARD
WAIKAEA SCO 88.2	9028	02	S HILO	2	19 40	155 08	1050					SHINICHI KANESHIRO
WAIKANOOLA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830					KANU RANCH

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3630, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in $^{\circ}\text{F}$, precipitation and evaporation in inches, and wind movement in miles per hour. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnotes following the "Evaporation and Wind" table. Max and min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates
- ++ Highest observed one minute wind speed. This station is not equipped with an instrument to measure fastest mile data.
- ++ Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for date of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly, usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- Wf Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

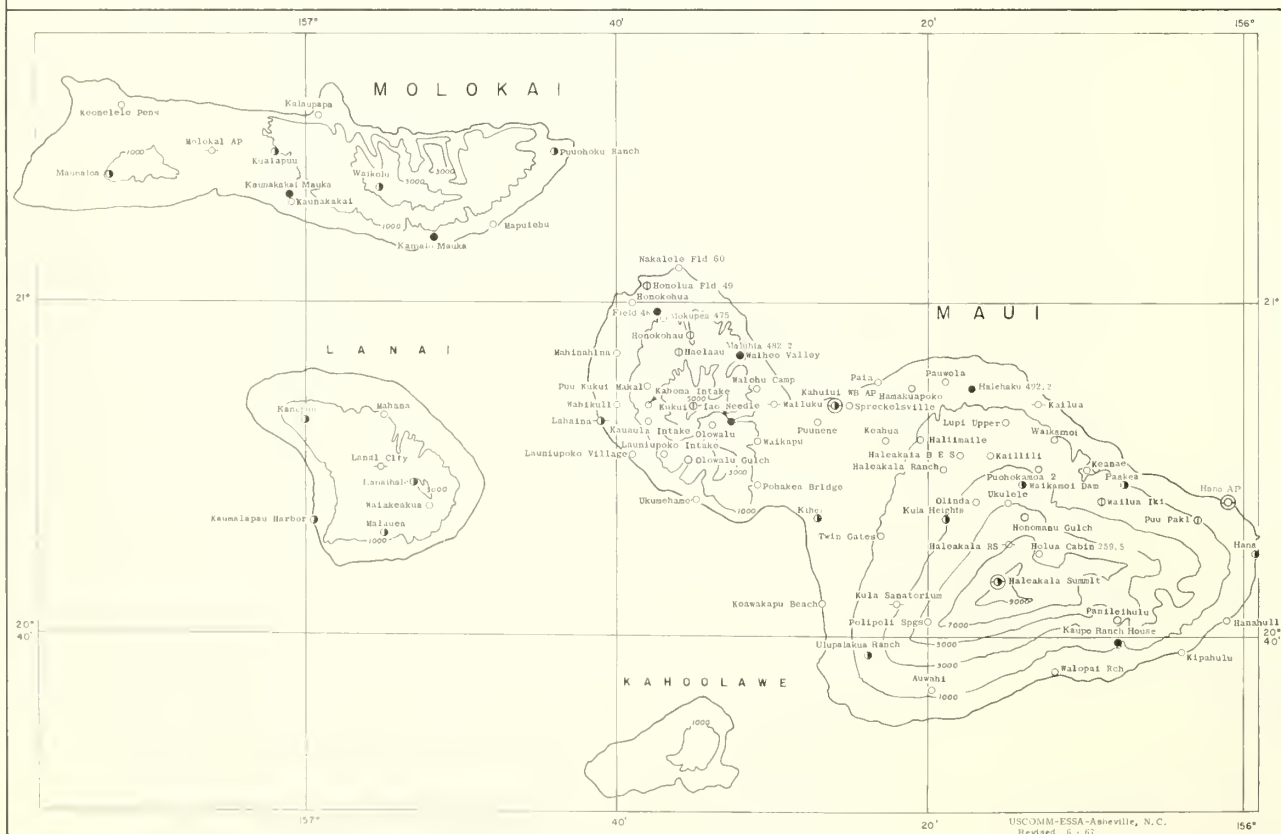
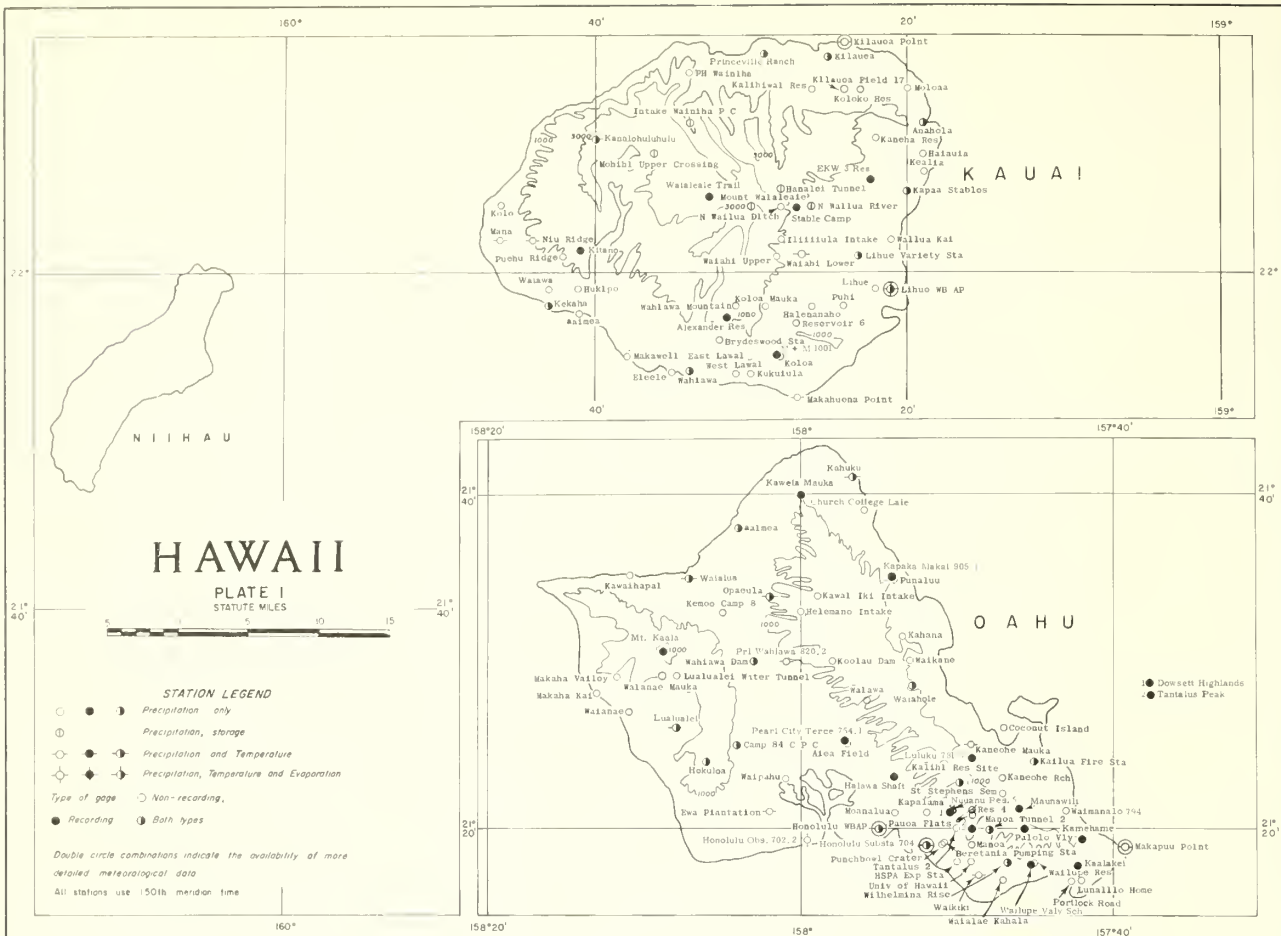
Stations appearing in the Index, but for which data are not listed in the tables, were either missing or received too late to be included in this issue.

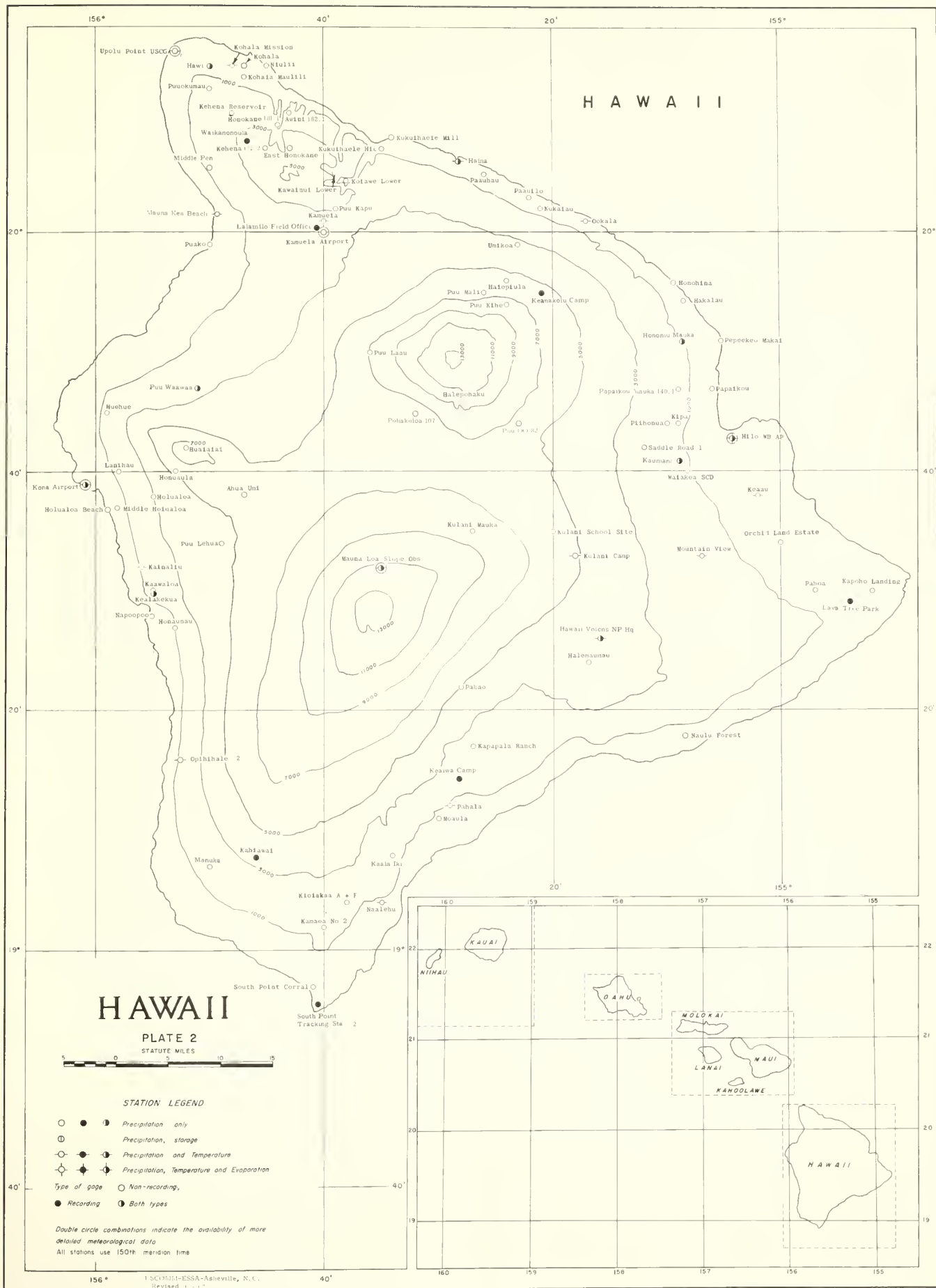
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, MONTHLY CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price. 20 cents per copy, monthly and annual: \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE-3/1/68-890





156°

40'

20'

155°

20°

20°

40°

40°

20°

20°

19°

19°

40°

40°

HAWAII

PLATE 2

STATUTE MILES

STATION LEGEND

- ● ● Precipitation only
- ○ Precipitation, storage
- ● ● Precipitation and Temperature
- ● ● Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording, ● Recording
- Both types

Double circle combinations indicate the availability of more detailed meteorological data.
All stations use 150th meridian time

156°

150000-ESSA-Asheville, N.C.
Revised 6-5-54

40'

HAWAII

20'

155°

20°

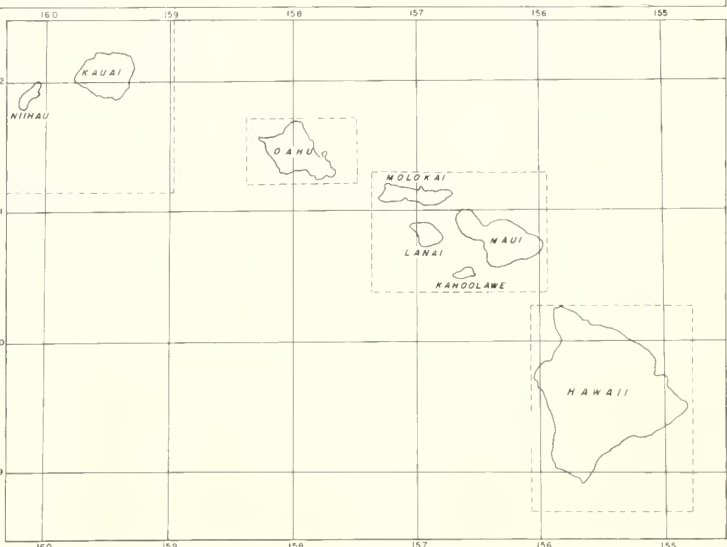
20°

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19°

19°





CLIMATOLOGICAL DATA

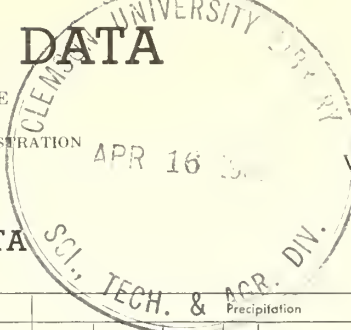
U.S. DEPARTMENT OF COMMERCE
C. R. SMITH, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

DECEMBER 1967

Volume 63 No. 12

CLIMATOLOGICAL DATA



Station		Temperature								Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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CLIMATOLOGICAL DATA

HAWAII
DECEMBER 1967

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TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 91° ON THE 30 AT MAUNA KEA BEACH, HAWAII

LOWEST TEMPERATURE: 25° ON THE 13TH AT MAUNALO A SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 40.18 INCHES AT KANALOHULUHULU, KAUAI

LEAST TOTAL PRECIPITATION: 2.21 INCHES AT MIDDLE HOLUALOA 68.1, HAWAII

GREATEST ONE-DAY PRECIPITATION: 10.71 INCHES ON THE 18TH AT PORTLOCK ROAD 724.4, OAHU

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150TH MERIDIAN TIME				Trace	01-09	10-49	50-99	100-199	200 and over	Total		
							2 AM	8 AM	2 PM	8 PM									
HILO, HAWAII, WB AIRPORT	26	2.0	8.0	29	SE	16	84	79	71	82	2	1	8	4	2	2	19	31	6.9
HONOLULU, OAHU, WB AIRPORT	0	3.4	10.0	31	SE	17+	80	78	62	75	7	8	2	5	0	2	24	52	6.8
KAHULUI, MAUI, WB AIRPORT	5	2.6	12.0	34	N	13	90	89	72	86	7	3	9	1	1	0	21	69	6.6
LIHUE, KAUAI, WB AIRPORT	7	1.8	12.8	34	SW	23	87	86	75	84	3	8	6	3	1	2	23	40	7.3

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

December was characterized by several periods of severe weather, particularly over Kauai and Oahu.

The first of these occurred on the 9th when rains of up to 10 inches, chiefly in windward and mountain areas of Oahu, caused widespread flooding. In Waimanalo, Waimanalo Stream overflowed, rendering some streets impassable. In Honolulu, water reached car-door levels at Moanalua Gardens and covered Salt Lake Bridge and parts of Kapiolani Park. On Kauai, the Hanalei and Kokee areas reported mudslides and flooded roads, but no major damage. A blinding snowstorm, accompanied by strong winds, hit the upper slopes of Mauna Kea, blocking the road, damaging construction equipment and installations, and further delaying work on the new astronomical observatory at the summit.

On the 12th, a cold front brought a variety of weather to many parts of the State. As the front moved rapidly down the island chain, strong and gusty northwesterly winds behind it damaged banana and other fruit trees on Kauai, while on Oahu, wind and waves snapped many boats from their moorings and sank a \$7,000 yacht, after smashing it against the dock in Keehi Lagoon. Haleakala Summit, on Maui, was visited by wind gusts to 62 m.p.h., and by hail and freezing rain which coated roads, buildings, scientific facilities, and the television transmitter with ice up to 6 inches thick. And as the front passed over Hawaii Island, winds blew a mango tree onto a house at Laupahoehoe, doing \$4,000 worth of damage.

The most severe weather of the month occurred on the 16th to 18th, and was associated with the combination of a Kona low north of the islands, a strong slowly moving cold front to the northwest, and a deep low pressure system in the upper atmosphere.

During the period, strong, gusty southerly winds again seriously damaged the banana crop on Kauai, and resulted in numerous power failures on Kauai and Oahu as wind-blown branches contacted powerlines.

Shortly after 4:30 a.m. on the 17th, what was probably a small tornado embedded in strong southerly winds in advance of an approaching cold front, swept northward onto Kauai's southwestern coast, carving a swath approximately 200 feet wide and 2-1/2 miles long through the small plantation village of Kaumakani (population 1,200), and into the sugarcane fields beyond. Thirty-eight homes were damaged, a number of them badly, 4 or 5 beyond reasonable repair,

and there was considerable lodging of sugarcane. Three large coconut palms were broken off 3 to 10 feet above the ground, and the tops never found. Civil Defense estimated the damage at approximately \$300,000.

Although the path of the storm, as clearly defined by aerial photographs, closely resembled that made by small tornadoes in the contiguous U. S., a Weather Bureau team which visited the area could find no clear-cut evidence of rotary motion in the distribution of debris. Several persons reported hearing sounds similar to those made by jet aircraft, but no funnel cloud had been sighted, probably due to darkness and the early hour. That unusually strong southerly winds had also affected other parts of Kauai's southern coast at about the same time, was evidenced by minor roof damage at points as far apart as Poipu Beach and Kekaha.

Beginning late on the 17th, and continuing through the early 18th, severe thunderstorms deluged Oahu. Rainfall was heaviest over the southeastern portion, where as much as 10 inches of rain fell within a few hours, and least along the west and northwest coasts, which received only 1/2 inch to 2-1/2 inches. One gage (Kaalakei) in the Kuliouou area of southeastern Oahu, reported about 2.2 inches of rain in 40 minutes, between 3:35 and 4:15 a.m. on the 18th, and 7.05 inches between 12:30 a.m. and 4:15 a.m. On the windward side, Kailua Fire Station had 2 inches in 50 minutes and 6.2 inches in 4 hours and 45 minutes. During the height of the storm, Maunawili recorded about 1 inch in 10 minutes. Rains of these intensities occur on the average only once in 25 years on eastern Oahu.

The heavy rains brought widespread flooding to Waimanalo and to the Koko Head, Kuliouou, Niu Valley, Aina Haina, and Waialae-Kahala areas of Honolulu. Niu Valley was hardest hit, as storm culverts, blocked by large boulders and other debris, sent flood waters rushing into adjacent homes, sweeping several from their foundations and making it necessary to evacuate 200 residents to Niu Intermediate School. Also in Niu Valley, lightning struck a coconut tree and transmission line. On Wailupe Place, water stood nearly knee-deep throughout the 18th. Kalaniana'ole Highway was impassable in many places, and flood waters swirled under the new Kaimuki viaduct. In Waikiki, several cars were submerged in the basement parking lot of a hotel. The city and county of Honolulu estimated damage to private property and public facilities at over \$900,000, including the post-storm clean-up.

HAWAII - DECEMBER 1967

SPECIAL WEATHER SUMMARY - Continued

December's rainfall total was well above normal nearly everywhere in the State, except along Maui's northeastern coast and in Hawaii's Kohala and Hamakua districts. In southeastern Oahu, leeward Kauai and Maui, a number of gages reported between 3 and 5 times their December normals.

Stations with 25 years or more of record, and that exceeded their previous 24-hour or monthly record totals for December, are listed below:

Stations Whose Previous Greatest December Rainfall Totals were Exceeded in December 1967

(25 years of record or more, only)

Station	Length of Record (yrs.)	Previous Greatest December Total	December 1967
KAUAI			
N. Wailua Ditch	39	33.90	35.26
OAHU			
Kaneohe Mauka	38	17.39	17.56
Punaluu	27	15.05	15.95
Waimanalo	67	18.86	23.10
Wilhelmina Rise	39	15.60	17.90

Stations Whose Previous Greatest 24-Hour Rainfall Totals were Exceeded in December 1967

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous December 24-Hour Extreme	December 1967
OAHU			
HSPA Experiment Station	49	7.21	8.04
Lale	57	4.22	6.52
Makapuu Point	54	3.25	9.63
Manoa	48	6.08	9.43
Manoa Tunnel	39	6.86	9.84
Palolo Valley	39	6.70	10.60
Wilhelmina Rise	39	4.58	9.56 *
HAWAII			
Kaumana	28	8.75	9.95

* -- Greatest 24-hour total in any month.

Saul Price
ESSA-Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

Russell Dorr
ESSA-Acting State Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
DECEMBER 1967

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
ANAMOLA 1111	A	14.24	.08	*	*	.71	.14	.01	1.26	*	*	8.10	.15	.07	.03	.08	*	*	2.00	.05	*	*	*	*	*	1.52	.04	*	*	*	*	*	*
BRYCESWOOD STA 985	A	11.99	.41	*	*	1.78	.08	.11	1.10	.78	*	3.21	.04	*	*	.01	*	*	1.62	.10	.16	.01	*	*	*	3.05	.02	*	*	.50	*	*	
EAST LAKE 934	A	11.15	.34	*	*	1.74	.44	.10	1.18	1.21	*	1.96	.09	*	*	*	*	*	1.22	.03	.02	*	*	*	*	2.99	*	*	.85	*	*		
ELELE 927	A	6.74	.14	*	*	.52	.01	.01	.05	.74	*	1.40	.03	.02	*	*	*	*	1.19	.07	*	*	*	*	*	2.14	T	*	.42	*	*		
HAUOLA 1110	A	15.32	.15	*	*	.30	.16	.05	1.00	*	*	8.69	.38	.06	*	*	.34	*	2.56	.10	*	*	*	*	*	1.50	*	.03	*	*	*		
HALENAHOU 1006	A	12.48	.40	*	*	1.16	.34	.11	1.10	1.20	*	3.51	.10	.01	.02	*	*	*	1.87	.12	.05	*	.04	*	*	3.45	*	*	.93	*	.56	1.30	
HUKIPO 945	A	10.62	*	*	*	*	*	*	1.10	1.40	*	1.66	.09	.08	*	*	*	3.26	.08	*	*	*	*	*	2.02	*	*	*	*	*	*	*	
ILITILUA INTAKE 1050	A	30.59	.68	2.16	1.45	.97	.86	.77	.37	.72	4.45	3.90	.66	.19	.07	.17	.81	1.88	.61	.21	*	*	1.86	4.14	1.80	*	*	*	*	*	*		
INTAKE WAINIPA PC 1086	A	37.39	1.07	*	*	6.80	.00	*	.53	*	10.04	5.23	*	*	2.03	*	3.05	.93	*	*	*	*	3.20	*	*	4.04	*	*	.93	*	*	*	
KALIMAI RES 1131	A	17.89	.35	*	*	1.50	1.00	.42	1.10	.07	*	8.99	.25	.13	.07	.35	*	2.70	.05	.01	*	*	*	*	.74	.07	*	.59	*	*	*		
KANALOHULUWAI 1075	A	40.18	.12	.64	.28	.10	.03	*	.90	7.55	5.20	5.80	.58	.96	.96	.05	1.36	3.28	1.34	.44	.03	.03	.47	3.00	.94	.09	1.31	.42	*	*	*		
KANEHA RESERVOIR 1092	A	22.06	.32	*	*	1.10	.37	.18	1.10	.52	*	13.04	.35	.10	.04	.29	*	1.95	.53	.03	*	*	*	*	3.10	*	.04	*	*	*	*		
KAPAA STABLES 1104	A	12.64	.04	*	*	.52	.10	.10	.53	*	6.98	.10	.08	.05	*	*	2.25	.19	*	*	*	*	*	1.70	*	*	*	*	*	*	*		
KEAII 1112	A	13.06	.03	*	*	.65	.11	.04	1.30	*	6.72	.18	.03	.02	.29	*	2.08	.22	*	*	*	*	*	1.37	.02	*	*	*	*	*	*		
KEKAHA 944	A	8.97	*	*	.04	*	*	*	.60	1.76	.03	.35	.05	*	*	*	.26	1.40	.88	.07	*	*	1.32	.20	.23	*	1.30	.48	*	*	*		
KILAUHA 1134	A	10.83	.20	*	*	.71	.40	.13	.06	.37	*	5.05	.15	.05	.08	.06	*	2.33	.05	.01	*	*	*	*	.67	*	*	*	*	*	*		
KILAUHA FIELO 17 1135	A	15.97	.23	*	*	1.08	.65	.19	.06	.44	.53	8.27	.26	.07	.12	.11	*	3.04	.05	.02	*	*	*	*	.72	.03	.01	.65	*	*	*		
KILAUHA POINT 1133	A	12.95	.79	.23	.05	.35	.06	*	.30	2.26	.53	1.17	.34	.20	.10	.06	.07	1.66	1.90	.03	.03	.40	.24	.45	.22	.45	.50	1.10	.10	*	*		
KOLO 1033	A	11.34	.32	*	*	1.41	.36	.18	.07	1.91	*	.44	1.74	.30	.06	*	*	1.62	.06	*	*	*	.69	.28	*	.22	.90	.29	*	*	*		
KOLOA 936	A	11.51	.32	*	*	1.41	.36	.18	.07	1.91	*	.44	1.74	.30	.06	*	*	1.62	.06	*	*	*	.69	.28	*	.22	.90	.29	*	*	*		
KOLOA MAUKA 994	A	14.55	.59	*	*	1.81	.20	.19	.20	1.41	*	3.54	.23	*	*	*	*	1.61	.19	.04	*	*	*	*	.454	*	*	.93	*	*	*		
KOLOKO RES 1137	A	19.64	.25	*	*	1.00	.83	.12	.03	.64	*	11.09	.31	.08	.16	.11	*	2.56	.12	.01	*	*	*	*	1.37	.01	.02	.75	*	*	*		
KUKULUA 935	A	8.75	.13	*	*	.87	.08	.04	1.15	*	1.50	.04	*	*	*	*	.09	1.26	.30	.09	.09	.09	1.78	.61	*	*	.31	.78	*	*	*		
LIHUE VARIETY STA	A	13.38	.21	.52	.60	.06	.26	.13	1.98	1.97	2.10	.08	.01	.01	*	*	.09	1.26	.30	.09	.09	.09	1.78	.61	*	*	.31	.78	*	*	*		
LIHUE 1020	A	11.61	.15	*	*	.37	.16	.05	.02	1.86	2.79	.62	.16	.02	.01	*	*	2.05	.23	.04	*	.02	*	*	*	3.04	.01	*	*	*	*		
LIHUE WB AIRPORT	R	12.79	.05	.12	T	.14	.02	.03	5.07	1.71	.32	.11	T	.01	.03	*	.06	2.01	.21	.01	*	.06	1.70	.97	T	.65	.22	.06	.70	.92	*		
MAKAHUA POINT	A	9.19	.08	.21	.08	.09	.12	.02	.01	2.19	1.30	.21	.03	.04	*	*	.51	1.09	.30	*	*	.08	1.70	.97	T	.65	.22	.06	.70	.92	*		
MAKAWALI 965	A	8.74	.04	*	.01	*	*	*	.71	1.41	.50	.45	.03	*	*	.35	.76	.53	.11	*	*	.48	1.80	.27	.65	.22	.06	.70	.92	*	*		
MANA 1026	A	10.83	.04	*	*	*	*	*	.25	2.75	.30	1.71	.11	.10	.01	*	1.66	.97	.30	.14	.01	.40	.70	.56	.09	.58	.88	.30	*	*	*		
MOHAI UPR CROSS 1083	A	17.41	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.60	1.17	4.91	3.25	.17	*	*	1.80	.03	*	1.03	.35	*	*		
MOLOAA 1145	A	14.88	.07	*	*	.35	.18	.18	.58	*	8.51	.05	.10	.07	.17	*	*	2.22	.57	*	*	.13	*	1.82	.30	.01	1.03	.35	*	*	*		
NIU RIDGE 1035	A	13.14	.75	*	*	3.21	.99	1.01	.61	.87	*	15.08	.48	.18	.33	.08	.87	3.10	.25	.01	.01	.13	*	1.82	.30	.01	1.03	.35	*	*	*		
N. WAILUA DITCH 1051	A	31.52	1.04	1.48	1.38	.30	.50	.05	T	.02	1.14	9.71	.50	.55	.14	.09	.09	1.10	1.10	.05	.05	.45	.65	1.50	.02	.04	T	1.26	T	3.40	*		
PRINCEVILLE RANCH 1117	A	18.97	.49	1.01	.44	.22	.59	.25	.11	.05	1.43	5.26	1.92	.42	.07	.11	.14	2.25	1.00	.05	.05	.35	*	.59	.35	.01	.63	1.59	*	*	*		
PUEHU RIDGE 1040	A	14.41	.18	*	*	.53	.37	.07	.01	2.11	*	3.86	.11	.02	.01	*	2.98	.17	.32	.10	.02	.05	*	3.59	.27	1.24	.33	*	*	*			
PUEHU 1013	A	13.04	.18	*	*	.53	.37	.07	.01	2.11	*	3.86	.11	.02	.01	*	2.98	.17	.32	.10	.02	.05	*	3.59	.27	1.24	.33	*	*	*			
RESERVOIR 6 1004	A	13.31	.61	*	*	1.44	.38	.11	.03	1.62	*	2.85	.07	*	*	*	1.95	.18	.02	.02	*	*	*	.405	.01	.36	.25	.50	*	*	*		
WAIHANA 930	A	7.99	.14	*	*	.74	.03	.04	.01	.73	*	1.53	.02	T	*	*	1.52	.04	*	*	*	*	*	.282	.01	.36	.25	.50	*	*	*		
WAIHANA MOUNTAIN 990	A	25.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
WAIHAI LOWER 1054	A	21.77	.42	1.62	1.02	.47	.65	.60	.24	1.40	3.90	2.25	.48	.05	.05	.06	.55	.95	.45	.06	.01	3.30	.63	.88	.01	.01	.58	1.15	.15	*	*		
WAIHAI UPPER 1052	A	24.65	.79	1.71	.77	.53	.97	.77	.23	.20	6.07	1.38	1.10	.03	.03	.05	.70	1.29	1.15	.29	2.93	1.12	.01	.01	.60	1.95	.01	.01	.60	1.95	*	*	
WAIHAI 943	A	8.91	.12	.25	.02	.48	.12	.13	.90	1.60	.07	.35	T	.01	.07	.48	1.73	.81	.08	.02	.24	.57	.44	.30	.01	1.04	.67	*	*	*			
WAILUA KAI 1065	A	12.25	.07	*	*	.48	.12	.13	.90	1.60	.07	.35	T	.01	.07	.48	1.73	.81	.08	.02	.24	.57	.44	.30	.01	1.04	.67	*	*	*			
WAIHAE 947	A	9.33	T	.02	*	*	*	*	.90	1.60	.07	.35	T	.01	.07	.48	1.73	.81	.08	.02	.24	.57	.44	.30	.01	1.04	.67	*	*	*			
WEST LAWA 931	A	9.67	.20	*	*	1.27	.08	.03	.01	1.28	*	2.10	.04	*	*	*	1.08	.02	T	*	*	*	3.05	.51	*	*	*	*	*	*	*		
ISLAND OF OAHU																																	
AIEA FIELO 625 761	A	8.85	.35	*	*	.32	*	T	.02	1.79	1.10	.01	.07	T	.01	*	2.84	.10	.62	.07	*	.07	*	.30	.13	*	.35	.03	*	*	*		
BERTANITA PUMPING STA	A	12.18	.10	.05	.09	.08	T	*	.02	1.79	1.10	.01	.07	T	.01	*	2.84	.10	.62	.07	.07	.07	.30	.13	*	.35	.03	*	*	*			
CHURCH COLLEGE LAIE	A	9.95	.02	*	*	.08	*	.05	.01	.15	6.52	3.20	.66	.06	.05	.05	.03	1.85	T	.55	.05	.73	.60	.14	.20	.17	.17	.38	.32	*	*		
COCONUT ISLAND 840.1	A	15.77	.25	.09	.04	.02	.09	.01	1.21	.78	3.35	.06	.51	.06	.05	.05	.68	5.82	.02	.38	.16	.59	.72	.17	.17	.38	.32	*	*	*			
EWA PLANTATION 741	A	7.67	.02	*	*	.08	*	.05	.01	1.87	.60	.11	.17	.05	.05	.05	.26	3.00	.06	.53	.03	.03	.27	.76	.04	.04	.04	.04	.04	.04	.04		
HELEMANA INTAKE 881	A	13.01	.01	*	*	.08	*	.05	.01	1.87	.60	.11	.17	.05	.05	.05	.26	3.00	.06	.53	.03	.03	.27	.76	.04	.04	.04	.04	.04	.04	.04		
HOKULUA 725.2	A	13.85	.01	.37	*	.08	*	.05	.01	1.87	.60	.11	.17	.05	.05	.05	.26	3.00	.06	.53	.03	.03	.27	.76									

DAILY PRECIPITATION

HAWAII
DECEMBER 1967

Continued

Station	Total	Day of Month																																		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
ISLAND OF MOLOKAI																																				
KALAPAPA 563	5.76	.10	*	*	.15	T	T			*	2.00	.80	.10	T	*	*	*	*	*	.85	*	*	*	*	*	*	*	.15	*	*	.50	.30	.81	*	*	
KAUNAKAKAI 536	8.03									*	2.79	.28	.15						.63	1.93	1.82	.40							.14	.29	*	*	*			
KEONELELE PENS 551	8.37									*	3.15									2.65	.50	.40								1.67	*	*	*			
KALAPAPA 534	10.43	.04								*	3.85	.41	.32	.02	.16	*	*	*	.31	1.94	2.36	.11	.05				.07			1.67	*	*	*			
MAPULEHU 542	9.53	.30		.07				.12		.40	1.53	1.17	.12	.20	.05	.05		1.45	1.84	1.28	.03	.12							.44	.36	*	*	*			
MAUNALOHA 511	8.87									*	3.19	.54	.12	.05	.02	*	*	*	.50	1.05	.92	.73	.02						.48	*	*	*				
MOLOKAI AP 524	9.05	.30				.05				.58	1.73	.98	.72	.08	.05		*	*	1.34	.74	1.73	.33				.14	.09		.20	*	*	*				
PUUOHOKU RANCH 542.1	9.05									*	3.25	.26				*	*	*		4.25	.17									.20	*	*	*			
WAIKULU 540	21.25				3.08						7.02						*	*	5.17								5.98					.77	*	*		
ISLAND OF LANAI																																				
KANEPUU 690	6.86	*	*	*	*	*	*	T	*	*					4.22	*	*	*	*	1.10	.40	2.16	.02	*	*	*	*	*	.19	*	*	.29	*	*		
KAUNALAPAU HARBOR 658	5.72										3.78						*	*	.13	.40	.40		.02	*	*	*		.09		.20	*	*	.29	*		
LANAI CITY 672	9.46								.40	4.26	1.12	.24	.03	.01		.11	.14	.06	1.22	.79	.06	.10	.16	.20	.08	T			.36	.04	.08	*	*	.08		
LANAIHALE 684	11.59	*	*	*	*	*	*	.08	*	*					6.49	*	*	*	*			4.00								.33	*	.69	*	*	.08	
MAHANA 694	8.94	*	*	*	*	*	*		*	*						*	*	*	*													8.94	*	*		
MALAUHA 676	10.22													7.22	*	*	*	*		2.33										.31	*	*	.36	*	*	
MAJAKEKUA 685	13.45										6.71	.69				*	*	*	.44	1.85	*					3.28	.01	*	*	*	*		.47	*	*	
ISLAND OF MAUI																																				
AUNAHU-252	11.69	.80	1.48	.58	1.16	*	*	*	*	*	5.20		.35	*	*	*	*	*	2.05	.05	*	*	*	*	*	*	*	2.30	*	*	1.79	*	*	*		
HALEKALA B E S 434	11.20	.25	.24	*	.72	*	*	*	*	*	1.70	1.18	.75	.48	.59	.31	*	*	.59	.20	.05	*	*	*	*	*	.12	.03	*	*	.98	*	*	.20	*	
HALEKALA RANCH 432	8.39	.25	.24	*	.72	*	*	*	*	*	1.59	1.07	.98	.44	.50	.11	*	*	.72	.27	.12	*	*	*	*	*	.23	*	*	1.15	*	*	.30	*	*	
HALEKALA RS 338	10.95	.17	.45	.10	.25	*	*	*	*	.07	3.04	.19	.54	2.40	.66	*	*	*	.82	.15	.08	.06	.06	*	*	.39	.02	*	*	.86	T	.30	*	*	.30	
HALEKALA SUMMIT 338.4	12.38	.15	.25	*	.05	*	*	*	*		3.00	1.50	.43	2.25	.45	*	T	.12	.10	1.53	.10	.05	*	.06	*		1.93	*	*	.31	.05	.05	*	*	.05	
HALLIMALE 423	8.25	.26	*	*	1.56	*	*	*	*	*	1.91	.64	.19	.24	.11	*	*	*	.64	.44	.18	*	*	*	*	*	.36	*	*	1.50	*	*	.22	*	*	
HANAKAPOK 485	9.48	.32	1.42	.05	.39	.05	.03	*	*	*	1.16	2.14	.75	.14	.09	.08	.01	*	.33	.56	.48	.01	*	*	*	.38	.05	*	*	.68	.01	.85	*	*	*	
HANA 354	8.58	.16	*	.59	.28	*	*	.23	*	*	2.26	1.46	1.11	.09	.03	*	*	.09	.06	.07	.01	*	*	*	1.10	*	.33	*	*	.64	*	*	*	*		
HANA AIRPORT	6.50	.48	.12	.11	.45	.18	.02	.02	.02	T	1.65	.52	.85	.38	.18	T	T	*	.60	T	.02	.03	T	*	*	.17	T	*	.30	.15	.25	*	*	*		
HANAHULI 281	8.03	.63	.26	.18	1.10	.40	*	.06	.13	T	1.70	.38	.11	*	*	*	*	.06	.05	T	.02	.08	.15	.01	*	.10	1.05	1.00	T	.27	.01	.28	*	*	*	
HOLUA CABIN 259.5	5.28	*	*	*	*	.75	*	*	*	*	*	*	*	2.20	*	*	*	*	*	*	*	.93	*	*	*	*	*	*	1.40	*	*	*	*	*	*	
HONOKOHU 480	16.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16.80	*	*	*	*	*	
HONOKOHU 493	10.92	.21	*	*	.75	.11	*	*	*	*	6.19	.15	.12	.06	.08	*	*	*	1.37	.67	.29	.03	*	*	*	*	.06	*	*	.54	*	*	.29	*	*	
HONOHONO GULCH 341	8.80	*	*	*	*	*	*	*	*	*	8.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.80	*	*	*	
KAHOMA INTAKE 374	19.04	*	*	*	*	.65	*	*	*	.03	*	*	*	*	6.53	*	*	*	*	*	*	.419	*	*	*	*	*	*	*	1.44	*	*	*	*	*	
KAHULUI HB 4P	5.09	.20	T	.07	T	T	*	*	*	.42	1.43	.49	.34	.22	.08	*	*	*	.47	.26	.39	*	T	.23	T	*	*	*	.50	.02	T	T	*	*		
KAHULUI 436	11.43	1.12	2.67	.36	1.21	.31	.15	.34	.01	.01	1.25	.97	.34	.20	.18	.05	.02	*	.20	.09	.13	.03	*	*	.01	*	*	.	15.44	*	*	.01	1.41	*	*	
KAUJALA INTAKE 375	5.14	.02	.03	.02	.09	*	*	*	*	.01	1.15	.80	.58	.08	.14	.08	*	*	.	.60	.21	.17	*	*	*	.20	.03	*	*	.91	.01	.01	*	*	*	
KEAHUA 410	14.00	*	*	*	*	*	*	*	*	*	*	*	*	.03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.00	*	*	*	*	*	*	
KEAHUA BEACH 260.2	6.79	*	*	*	*	*	*	*	*	1.13	.76	.17	.03	.10	.14	.05	.03	1.56	.18	.96	.15	.01	*	*	.63	*	*	.	.84	*	*	*	*	*		
KIHEI 311	5.33	*	*	*	*	*	*	*	*	*	1.53	.41	.	.21	.05	*	*	.	1.49	.24	.06	*	*	*	.	.70	*	.	.84	*	*	*	*	*		
KIPAHULU 256	8.54	.71	.22	.34	.42	.34	.11	.21	.18	.	1.42	.90	.08	.	.	.	.24	.	.	.89	.10	.	.	.	.	.130	.	.	.	.	.	.	.	.	.
KULA HEIGHTS 323.2	8.49	.	.34	*	.	.	.	.	.	.	1.82	.49	1.01	.71	.72	.03	*	.	.	1.15	.24	.02	*	*	.	.56	*	.	1.40	*	*	*	*	*	
KULA SANATORIUM 267	9.02	*	*	*	*	*	*	*	*	.03	2.20	.29	.72	.33	.45	*	T	.	1.51	.36	.20	.10	.	.52	1.10	.15	.	.	1.04	*	.	.02	*	*		
LANAI 361	7.92	*	*	*	*	*	*	*	*	.	2.75	.60	.13	.07	.31	.05	*	.03	.	1.29	1.39	.	.	.	.10	.20	*	.	1.00	*	.	.	.	.
LAUNIPOKO INTAKE 376	13.00	*	*	*	*	*	*	*	*	.	2.95	.25	.20	.04	.18	.03	*28	.07	*	.	.	.90	*	.	.13.00	*	*
LAUNIPOKO VILLAGE 372	7.49	*	*	*	*	*	*	*	*	.03	2.95	.25	.20	.04	.18	.03	*	.02	.	1.62	.92	.	.	.	.	.28	.07	*	.	.	.90	*	.	.	.
LUPU UPPER 442	5.95	*	*	*	*	*	*	*	*
MAHINAHINA 466	11.22	.05	*	*	.86	*	*	*	*	.	2.85	2.20	.13	.40	.23	.07	*	.	.02	1.80	1.30	.01	*	.	.10	.12	*	.	.	1.08	*	.	.99	*	*	
MAKALELE JFLO 60-497	9.08	*	*	*	.55	*	*	*	*	.	4.92	*	*43	*
OLINDA 332	8.34	.28	*	*	.39	.01	T	*	*	.	2.80	*	.	1.24	1.03	.10	*	.	.04	.85	.14	.06	.01	*	.	.	.	.	.	.84	*	.	.37	*	*
OLINDA 326	5.23	*	*	*	*	*	*	*	*	.	1.8	2.06	.20	.18	*	*	*
OLINDA GULCH 377	11.00	*	*	*	*	*	*	*	*
PAKEA 350	14.01	1.77	1.40	.64	1.79	.64	.47	.58	.16	.	2.04	.47	.71	.72	.37	.05	*	*	.	.40	.	.12	.10	*	*	.	.	.	.31	.15	1.12	*	*	*	
PAP 406	7.46	.51	.24	.10	.29	.	.	.	.	.	1.18	.33	.99	.20	.16	.03	*	*	.	.41	.30	.46	T	*	.	.47	.01	*	.	.60	.01	.17	*	*	*
PAKILEIUMU 259.2	10.90	*	*	*	*	*	*	*	*	*	*	.	8.00	*
PAUWELA 490	11.32	1.02	*	*	1.84	.18	.08	.03	*	.	5.04	.25	.18	.05	.27	.18	*	*	.	.22	.98	.27	*	*	*	.	.	.	.22	*	.	.96	*	*	*
PAUWELA BRIDGE 307.2	4.44	.	.01	*	*	*	*	*	*	.03	1.25	.40	.40	.01	.12	.07	.05	*	.	.93	.35	.02	*	.	.11	.	.	.	.55	*	.	.54	*	*	*
OLIPOLI SPRINGS 267.2	13.95	*	*	*	*	*	.08	*	*	*	.	.	.	.	.	.	.	.	.	2.54	*	*	*	*	*	*	*	*	5.60	*	*	.	.		

DAILY PRECIPITATION

Continued

HAWAII
DECEMBER 1967

Station		Total	Day of Month																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KAMUELA 192.2		6.51		.14	.13	.03	.07	.02	.19			2.12	.08	.58	.94	.99	.02					.10	.37	.20				.28			.14		.02		
KAMUELA AIRPORT		4.76		.08	.05	.02	.02	.03	T	.05	T	2.09	.10	.70	.54	.49	T	.09	T			.05	T	.26							.17		.05		
KAPAPALA RANCH 36							.48			1.10	1.30			1.89	.56	.50	.40					.46	.10					.02	.05	.01	T	.10	.05		
KAPOHO LANDING 935	A	13.22		7.25					3.21												.35	1.77	.46	.10				.03	1.15	.55	.05	.40			
KAMANA 88.1		30.16	1.25	6.67	2.10	.86	.30	.86	9.95	4.45	.12	.77	.35	.13	.01							.21										.27	1.86		
KAWAII LOWER 193		12.82	3.38						3.68								.48							.57								.39			
KEAUA 92		17.86	.89	4.58	1.12	.46	.68	1.33	2.35	2.49	.12	.65	.47	.13	.02			.24	.02	.53											.38	.12	1.12		
KEALAKEUA 26.2		3.57	.01						.03		.01	1.73	.14	.38								.50	.03	.18				.20	.26	.01		.09			
KEHENA 181.2		9.27																														9.27			
KEHENA RESERVOIR 176.1	A	7.55	.01			1.36	.06	.05	.12	.01			3.21	.46	.19	.03	.04			.05	.05	.01	.03	.98				.59	.01		.29				
KIDILAKA A 7 F 6	A	8.70		.82	6.02	1.95	1.27	.43	1.10	9.50	3.80	.21	.62	.42	.08																8.70				
KIPA 89.2	A	28.66																																	
KOHALA 179A	A	6.56	.01			2.00	.25	.33	.27				2.16	.55	.06			.01			.48		.01	.01							.18	1.75			
KOHALA MAULILI 176		7.19	.01			1.75	.25	.36	.67	.02			2.29	.36	.06						.48	.01	.16	.24					.22	.01		.22			
KOHALA MISSION 175.1		7.32	.01	1.11	.49	.31	.31	.38	.34	T		1.97	.16	.71	.03			.02		.29	T	.33	.21	T			.07	.31	T	.20	T	.07			
KOIAKE LOWER 196	A	9.87	2.93						2.38								3.90																		
KONA AIRPORT 68.3		3.04										1.96	T	.64																					
KUKAIAU 222		11.32	.10	3.00	.87	.60	.11		1.79	.01	T	.90	.03	.62	1.62	.78	.18				.06		.03	.10				.11	.10	.06	T	.05	.04		
KUKUHALE HIC 199		5.04		1.06	.35	.10	.18		.29			1.60	.10	.64	.18	.23	.10				.05										.05	.26			
KUKUHALE MILL 206		4.17				1.68	.08		.17				1.53	.17	.03	.15	.02				.17										.01	.04			
KULANI CAMP 79		18.78	.57	2.00	2.00	1.50	1.92	1.90	3.10	1.40	.70	1.09	.44	.15	.01	.01	.01	.01	.09	.07	.15	.02	.02				.09		.02	.03		1.48			
KULANI MAUKA 76	A	4.99	.60	1.03	.07	.10		.28	.25	.10	.95	.36	.05							.05											.25	.90			
KULANI SCHOOL SITE 78	A	25.25		18.40					.49							1.18					.41	.03									.33				
LANIHAU 68 C		4.02										2.37	.22		.06			.04		.08	.18	.31	.01	.82			.48	.03			.48				
MAUKA 2	A	4.18	.03			T			T				1.51	.05		.14																			
MAUNA KEA BEACH		3.96										2.20	.17	.64	.04																.59				
MAUNA LOA SLOPE DBS		2.99	.09	.03		.01	.01	.16	.23		1.55		.29	.07														.01	.30		.45	.36			
MIDDLE HOLUALDA 68.1		2.21										1.80								.03											.02	.08	.39	.02	
MIDDLE PEN 147.1	A	4.36											3.23					.04													.05		.11		
MOAUA 18	A	10.92																															10.92		
MOUNTAIN VIEW 91		21.88	.53	4.70	2.11	.88	.49	1.72	3.77	2.98	.14	.74	.53	.06				.24	.02	.51	.03	.03					.19			.49	.15	1.51			
NAALEHU 14		9.58	.29	.55		.04	.05	T	1.64	1.08			1.89	.02			.37	.02		.48	.06	.75	.10	.03	.01			1.26	.05	.08	T	.45			
NAPPOPOO 28		2.75											2.14						.16										.45						
NAULU FOREST 38.6		17.91	.90	2.62	.43	.22		.20	2.39	1.59	.06	1.81	.98	T		.02	T	.09	.43	1.36	.44	.25	.02	T			1.22				.53	1.09			
NIULII 179	A	6.17				2.38	.36	.33	.35				2.70	1.22	.06					.29	.05	.05						.10	.04		.24				
OOKALA 223		15.16	.20	3.62	.64	.95	.27	.04	2.52	.09		.88	.13	1.26	2.69	.63	.09	T													.01	.04	.01	.67	
ORCHIDLAND 2 24.1		3.61		.01	.02			.02		.38	1.63	.29	.01	.08	T					.07	.12	.09	.04	.01				.42	.12	.01	.29				
ORCHID LAND EST 91.5	A	20.03	8.31						9.77							1.28																.03			
PAAUHAU 217		9.54	.01	1.91	.31	.33	.05		.19	.01		.92	.98	2.08	1.42	.35	.19				.53	.01									.04		.03		
PAALUA 221		9.35		2.12	.82	.51	.05	1.00				.88	.02	.70	1.82	.61	.28	T			.18										.01	.10			
PAHALA 21		11.64	.44	.26	.03	.02			.76	2.38	.02	1.62	.46				.65	.03	.03		.58	.05	1.65	.07	.01	.01		.01	2.20		.05	.02	.43	.02	.74
PAHOLA 65		14.54	1.04	4.11	1.82	.81	.61	.81	.70	.80	.12	.65	.47	.33						.16	.01	.26									.32	.08	.72		
PAKAD 37	A	10.55																															10.55		
PAPAIKOU 144A		20.96	.83	7.06	.43	1.19	.50	.97	2.94	3.77	.03	.59	.39	.42						.05	.01	1.15	.01								.21	.01	.41		
PAPAIKOU MAUKA 140.1		26.34	.92	7.43	1.44	1.23	.98	1.14	7.21	3.14	.07	.53	.45	.02						.06	.01	.52								.16	T	1.03			
PEPEEKU MAKAI 144		21.39	1.25	9.25	.38	1.28	.60	1.07	2.40	.99	.01	.46	.30	.05	.44	.10			.06	.01	.49	.01									.15	.16	1.93		
PIIHONUA 89	A	32.40																														32.40			
POMAKU 107		5.83							.09	.02	1.03	.08	.39				.05															.04		.19	
PUAKO 95A		3.85							.05	.03	2.26	.05	.46		.04																.47	.02	.33		
PUU KIH 120	A	3.19																															3.19		
PUU LAUA 102.1	A	3.98																																3.98	
PUU LEHUA 73	A	2.35																																	
PUU MALI 113	A	2.70																																	
PUUKUMAU 167			.02			1.16	.13	.19	.30	.04	.04		2.86	1.97	.07		.09			.01	.33	.03	.32	.99					1.00	.01		.49			
PUU DO 82		8.62	.60	1.40	.65	.45	.26	.17	.70	1.10	.04	.92	.22	.12							.25	.03	.01								.25		1.45		
PUU WAAWAA 94.1		4.52										2.23	.03	.38	.20																	.28			
SADDLE ROAD 1 84	A	47.75	.40																																

DAILY TEMPERATURES

HAWAII
OCTOBER 1967

Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	65 55	67 55	62 55	65 55	66 56	68 55	68 53	63 55	58 57	57 50	61 53	55 49	61 50	62 50	65 41	62 41	61 57	63 57	62 56	66 45	65 42	62 43	62 57	64 57	62 50	60 43	62 41	62 44	61 44	61 43	65 56	62.7 50.5
KILAUEA POINT 1133	MAX MIN	78 67	78 69	78 69	78 67	78 71	80 72	77 69	76 68	76 65	76 61	76 66	76 65	76 66	80 65	81 69	80 65	75 60	82 68	84 66	86 65	80 65	86 70	83 66	83 67	79 68	76 62	80 63	86 60	76 59	75 68	74 71	79.0 66.2
LIHUE #8 AIRPORT	MAX MIN	78 70	78 70	77 71	79 69	79 70	79 69	79 69	75 69	72 64	73 62	74 58	74 56	74 63	76 62	75 58	79 67	76 67	79 63	79 64	77 63	76 60	79 65	74 69	76 66	74 60	74 58	74 58	75 59	73 56	74 57	76 67	76.0 63.8
MAKAHUEA POINT	MAX MIN	79 71	78 70	79 71	79 70	80 70	80 70	80 73	82 71	78 68	76 65	76 61	82 60	80 62	72 65	81 63	82 72	82 68	84 68	83 69	83 65	80 66	83 69	77 71	79 70	79 65	79 64	78 62	79 64	80 58	79 64	78 63	79.7 66.7
MANA 1026	MAX MIN	83 62	83 63	83 63	84 63	85 63	82 66	82 65	80 71	75 68	74 65	75 60	75 63	76 66	80 66	78 66	81 66	81 66	79 62	80 65	80 65	75 64	80 65	75 66	77 66	75 66	77 68	76 68	74 68	74 66	75 66	78.6 64.9	
NIU RIDGE 1035	MAX MIN	82 61	81 60	80 60	80 61	80 62	81 64	80 63	80 64	77 64	75 60	72 61	72 60	71 61	72 63	75 64	77 65	76 62	78 64	77 64	70 63	78 60	75 60	76 60	77 61	76 60	70 57	77 57	77 59	75 56	74 57	76 58	76.4 61.0
WAIAMI LOWER 1054	MAX MIN	74 64	72 66	74 64	75 64	78 65	75 64	76 64	77 67	80 64	79 63	76 54	79 52	77 59	79 59	80 54	77 58	79 59	76 66	76 60	80 59	79 54	78 66	78 66	75 68	76 58	76 53	76 52	74 52	73 65	73 66	76.6 60.8	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	81 67	82 69	80 70	83 70	83 66	84 68	80 67	75 68	74 69	77 66	75 61	78 58	77 64	79 63	80 61	81 63	81 70	79 69	81 69	80 65	83 65	81 65	81 67	82 72	79 68	78 61	78 57	79 56	80 57	80 61	80 65	79.7 65.1
HONOLULU W8AP 703	MAX MIN	82 70	83 72	81 71	83 72	84 71	85 73	82 73	78 71	77 68	77 64	76 63	79 61	78 66	81 66	79 63	81 72	81 70	78 70	82 70	78 68	82 69	80 70	82 73	81 71	78 67	80 64	77 60	78 59	80 63	81 65	81 72	80.0 68.0
HONOLULU SUBSTA 704	MAX MIN	76 70	76 70	75 69	77 69	79 71	80 72	78 73	77 70	73 67	74 66	75 64	76 63	75 67	78 67	77 66	79 69	79 67	76 66	80 69	77 67	77 68	79 69	80 70	80 71	76 69	75 67	75 65	76 62	76 62	77 68	78 72	77.0 67.9
KAHUKU 912	MAX MIN	79 68			79 69	79 70	80 70	81 73	82 70			81 63	78 63	77 65	75 68	76 62																	
KANEHE MAUKA 781	MAX MIN	77 65	76 69	78 69	76 70	78 71	78 71	79 72	78 71	77 69	77 68	77 66	74 67	73 66	75 65	77 63	80 63	78 68	75 70	79 69	78 66	77 67	76 67	79 69	78 72	77 67	77 67	75 64	75 61	79 62	78 61	78 66	77.1 67.1
MAKAPUU POINT 724	MAX MIN	76 70	76 69	76 70	75 69	76 68	78 72	77 68	78 71	77 69	72 67	71 65	70 64	74 63	72 65	74 68	78 67	77 71	79 68	74 68	77 73	80 70	73 67	76 71	79 69	77 66	75 67	73 64	75 64	73 62	76 68	78 67	75.6 67.7
OPAUELA 870	MAX MIN	73 65			73 65	72 66	75 66	77 66	77 68	77 67				75 62	73 58	69 59	72 61	71 60	76 59														
PR1 WAIHANA 820.2	MAX MIN	76 64	78 64	79 67	79 64	79 62	82 62	82 67	82 66	73 64	72 62	74 60	70 59	73 63	74 63	77 59	78 59	76 66	79 65	75 65	76 61	84 60	79 62	76 67	74 68	74 61	81 60	75 55	75 53	77 52	79 59	78 58	77.0 61.6
WAIALUA 847	MAX MIN	79 64	77 64	78 68	78 60	80 61	82 60	83 65	83 66	78 66	76 68	76 64	79 60	70 64	76 63	78 66	81 66	81 69	80 70	79 64	80 64	80 66	81 67	81 69	83 70	80 73	80 70	80 57	80 56	81 56	78 62	79 64	79.2 64.5
WAIKIKI 717.2	MAX MIN	83 68	84 69	82 72	81 67	83 71	85 72	86 70	82 69	79 66	75 66	79 59	80 56	79 63	82 67	82 60	81 69	81 69	82 68	80 68	81 66	82 65	82 68	81 68	82 71	82 71	80 61	82 58	81 56	82 60	83 62	81.4 66.2	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	78 69	78 66	77 66	75 71	79 69	81 70	82 70	80 69	78 68	74 65	73 62	73 62	75 63	76 63	75 60	78 65	80 69	80 71	75 70	76 71	76 68	77 67	78 70	78 73	78 74	77 68	76 68	77 56	78 59	77 63	75 63	77.1 66.7
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	76 62	74 64	74 63	73 64	74 64	75 62	73 64	74 66	75 63	73 62	74 62	72 59	70 56	72 58	72 59	73 60	71 62	72 65	72 62	74 65	72 63	72 64	73 66	72 66	73 66	74 65	76 59	77 58	77 60	75 58	74 60	73.5 62.1
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	59 40	59 43	56 44	55 45	62 46	62 45	66 46	63 44	63 46	56 45	55 42	51 38	53 36	45 36	54 36	57 40	62 47	65 48	61 45	59 46	56 40	56 40	60 45	63 54	60 49	61 40	58 37	57 38	60 38	56 41	60 46	58.4 42.8
HALEAKALA SUMMIT 338.4	MAX MIN	47 39	45 40	48 39	67 33	52 39	55 43	53 44	52 44	69 43	46 38	55 29	42 27	35 29	35 26	43 32	54 32	43 32	48 36	57 35	52 39	51 40	54 35	51 37	47 34								
HANA AIRPORT	MAX MIN	77 68	78 71	78 74	78 68	80 69	80 76	78 72	79 68	79 65	77 67	78 65	78 60	75 61	77 63	77 60	81 61	86 63	83 64	78 70	78 67	79 67	80 65	83 64	86 70	76 64	75 59	75 54	74 49	78 36	79 30	78.7 66.4	
KAHULUI W8 AP	MAX MIN	77 68	78 70	74 69	81 68	83 69	83 66	84 65	82 67	73 67	74 65	75 60	79 60	75 64	76 63	78 58	82 61	86 63	79 65	80 65	77 68	77 67	78 61	78 71	78 70	78 69	75 62	73 57	77 55	78 59	77 58	79 64	78.2 64.5
KAILUA 446	MAX MIN	72 63	71 63	73 63	73 62	76 64	76 65	77 65	78 65	77 65	77 61	77 59	77 58	80 57	79 57	80 58	78 68	81 69	81 59	80 59	81 58	81 58	81 58	82 58	81 61	82 62	82 60	83 58	82 56	82 56	75 58	78.3 60.4	
KULA SANATORIUM 267	MAX MIN	73 54	72 55	70 57	71 56	68 57	71 58	71 59	70 58	71 59	66 56	65 54	67 54	64 50	61 51	56 52	72 52	71 60	80 68	69 58	72 59	76 56	69 56	71 56	69 61	69 62	66 50	66 46	66 47	69 49	70 50	69.3 55.3	
LAHAINA 361	MAX MIN	84 66	86 68	85 70	83 71	84 66	84 68	84 70	83 70	84 72	74 65	75 61	80 64	81 61	78 64	79 61	78 64	80 76	84 71	77 68	79 68	80 65	80 66	80 69	79 70	81 63	78 62	79 61	79 62	78 65	81 71	80.5 66.4	
WAILUKU 392	MAX MIN	82 65	81 67	80 66	76 64	81 66	82 66	83 67	82 69	73 67	76 67	72 56	76 57	82 57	75 59	79 57	81 59	86 62	86 65	78 63	80 65	81 60	81 66	86 69	80 68	80 68	82 62	79 56	80 57	80 56	81 61	80.0 62.8	

DAILY TEMPERATURES

HAWAII
DECEMBER 1967

Continued

Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF HAWAII																																	
HAINA 214	MAX	78	76	76	76	75	78	77	78	78	78	74	74	78	72	76	74	79	88	84	79	78	78	78	81	80	79	75	76	76	73	77	77.4
	MIN	63	65	65	65	64	67	66	65	63	61	62	59	60	61	58	59	66	63	63	63	63	62	61	62	67	62	58	58	61	58	64	62.4
HAWAII VOLCNS NP HQ 54	MAX	62	63	62	62	66	65	65	62	60	66	64	66	68	62	66	66	67	66	63	66	71	68	68	68	64	68	65	58	67	66	66	65.0
	MIN	52	55	54	54	56	56	58	54	53	56	54	46	50	49	48	48	54	57	57	50	54	47	47	55	59	52	51	51	50	53	52.6	
HILO WB AIRPORT	MAX	77	79	80	77	81	74	78	78	83	77	78	84	77	85	82	86	86	80	82	83	82	85	82	83	83	79	78	82	75	83	79	80.6
	MIN	66	69	69	69	70	70	70	68	66	69	66	61	63	62	62	64	71	67	68	64	67	63	62	63	65	66	62	63	65	64	69	65.9
KAINALIU 73B	MAX	78	78	77	76	79	79	80	80	78	75	74	73	74	76	75	75	79	83	80	75	73	74	76	80	78	75	76	73	74	72	74	76.4
	MIN	60	64	65	65	63	63	64	65	64	63	60	58	57	57	63	60	63	64	66	63	63	60	58	64	64	56	60	59	62	59	63	61.8
KAMUELA 192.2	MAX	70	69	68	68	67	70	67	76	75	75	72	70	69	63	70	70	76	80	78	75	75	72	76	76	75	70	70	72	74	67	71	71.8
	MIN	55	56	58	60	60	59	60	58	57	57	56	54	50	50	45	48	47	46	50	54	57	57	50	49	53	55	50	46	49	51	51	53.3
KAMUELA AIRPORT	MAX	72	68	69	69	68	70	68	74	74	60	70	67	69	67	69	68	72	75	74	73	73	72	72	74	74	69	68	69	71	68	68	70.1
	MIN	51	50	55	56	52	54	54	49	54	54	54	55	54	57	47	49	50	52	49	48	49	54	49	48	59	49	50	50	50	48	50	51.6
KEAAU 92	MAX	79	74	78	78	76	79	75	77	80	80	80	80	82	78	81	82	82	82	77	79	83	81	87	87	87	87	81	78	80	82	82	80.5
	MIN	64	66	66	66	67	67	65	65	64	64	64	60	61	58	60	60	60	60	68	62	62	61	62	62	62	62	60	60	63	63	63	62.8
KEALAKEUA 26.2	MAX	78	80	77	78	82	80	80	77	81	75	75	76	74	77	78	76	81	84	82	76	75	75	77	82	78	77	78	76	77	74	75	77.8
	MIN	64	68	64	68	69	68	65	69	68	62	61	63	61	64	64	67	67	70	66	63	63	62	65	68	63	60	62	65	62	62	64	64.7
KOHALA MISSION 175.1	MAX	76	76	75	73	77	78	76	78	78	77	76	76	77	74	76	79	81	85	81	81	76	78	78	81	82	77	76	74	76	75	75	77.4
	MIN	66	67	65	66	67	68	68	67	69	64	64	62	65	65	62	62	62	63	67	68	64	65	62	62	65	67	62	61	61	62	65	64.6
KONA AIRPORT 68.3	MAX	84	83	83	83	84	84	83	83	85	81	78	80	80	82	80	80	83	87	85	85	80	81	85	85	82	78	82	80	78	79	78	82.0
	MIN	62	64	64	64	62	63	63	63	67	63	62	62	62	62	61	63	62	65	64	65	64	64	64	63	67	64	68	66	66	65	66	63.9
KULANI CAMP 79	MAX	59	61	58	58	61	60	60	61	62	67	62	63	64	67	62	65	65	65	67	62	65	65	68	60	70	70	63	62	63	58	63	63.1
	MIN	45	52	48	47	51	53	51	50	48	48	50	43	42	40	40	40	45	45	45	48	48	44	44	48	48	48	37	39	45	44	43	45.9
MAUNA KEA BEACH	MAX	88	86	91	87	87	84	86	83	84	79	80	82	82	84	87	83	90	89	84	84	81	82	84	89	86	78	83	82	81	81	78	84.0
	MIN	67	70	60	73	70	70	74	73	72	66	67	66	64	68	64	65	67	68	70	71	68	67	64	68	67	62	63	64	64	66	68	67.3
MAUNA LOA SLOPE OBS	MAX	48	47	48	48	47	49	45	49	46	45	39	38	37	42	53	50	53	50	53	51	52	53	57	56	52	46	49	48	39	40	49	47.7
	MIN	30	34	36	37	35	34	37	36	36	34	29	29	25	30	33	33	35	33	35	32	36	34	39	36	35	31	33	29	28	29	30	33.0
MOUNTAIN VIEW 91	MAX	70	70	70	71	70	71	69	71	70	73	71	74	78	75	77	76	77	78	71	71	80	77	77	81	81	79	73	69	74	76	75	74.0
	MIN	57	62	60	62	61	62	63	61	60	62	60	54	53	52	53	53	63	64	63	57	57	55	57	57	61	58	54	54	57	60	58	58.4
NAALEHU 14	MAX	78	78	78	78	80	80	78	77	75	75	75	78	79	77	78	78	79	79	76	74	78	77	77	77	79	83	79	74	77	71	71	77.2
	MIN	67	67	65	65	67	70	68	65	65	61	61	61	64	63	61	61	64	64	66	66	68	64	64	64	64	63	63	63	61	61	61	64.1
OOKALA 223	MAX	77	73	78	77	77	80	78	77	80	81	75	75	82	74	74	79	81	86	81	81	82	79	81	81	79	83	76	73	78	76	78	78.5
	MIN	67	66	66	65	66	67	68	69	69	60	65	63	62	61	63	63	65	67	64	67	65	66	65	66	67	65	63	62	63	67	65	65.0
OPIHIHALE 2 24.1	MAX	77	75	76	78	79	78	77	75	73	73	72	74	73	76	89	84	78	74	74	73	75	83	83	83	74	73	71	74	73	77	76.4	
	MIN	58	62	63	60	61	62	62	64	64	57	57	61	56	55	55	60	60	62	62	58	53	54	60	60	55	55	55	56	57	57	60	58.7
PAHALA 21	MAX	80	78	78	77	78	79	79	72	73	74	74	79	78	77	79	77	80	80	75	73	78	75	79	80	74	82	77	72	75	74	78	76.9
	MIN	61	65	65	65	64	64	67	64	64	64	62	59	62	62	59	60	62	64	65	64	63	59	59	62	64	63	62	62	60	60	64	62.6
UPOLU POINT USCG 159.2	MAX	78	79	80	76	80	80	82	80	80	80	80	78	79	77	79	86	85	84	84	84	80	80	81	83	86	83	83	78	81	78	78	80.7
	MIN	67	69	68	67	69	69	69	70	72	65	65	64	64	70	67	67	67	71	70	72	67	69	68	71	71	68	65	64	64	67	70	67.9

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WB AIRPORT	EVAP	.20	.26	.26	.32	.23	.14	.22	-	-	.09	.12	.16	.23	.15	.16	.18	.27	.14	.14	.14	.15	.16	.16	.03	.16	.26	.30	.05	.14	.15	.23	5.568
	WIND	198	256	238	215	171	166	145	52	97	78	69	58	80	66	71	92	160	68	67	57	48	50	224	174	187	56	50	54	68	61	151	3527
	MAX	80	79	79	78	78	81	79	79	75	71	75	77	77	77	84	81	80	80	83	82	82	84	82	81	76	76	77	77	80	77	73	78.7
	MIN	66	66	66	66	66	66	63	68	67	61	58	55	56	60	61	57	66	66	65	64	60	60	62	63	58	60	62	57	55	55	57	61.7
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.13	.26	.16	.14	.17	.32	.19	.12	.06	.18	.06	.08	.15	.10	.15	.15	.17	-	.07	.10	.15	.08	.15	.16	.15	.15	.15	.10	.15	.12	.11	4.378
	WIND	49	50	66	56	40	45	42	13	58	32	25	25	37	28	20	65	112	68	28	21	14	19	79	85	69	33	19	17	23	19	28	1285
	MAX	83	87	83	80	82	85	86	81	76	76	79	77	81	78	81	85	85	83	81	87	86	86	86	85	86	80	80	78	82	84	79	82.2
	MIN	67	68	68	66	66	67	68	68	71	67	63	61	62	62	64	64	72	71	72	69	69	69	71	71	67	61	60	59	59	65	64	66.2
* * * ISLAND OF HAWAII																																	
HILO WB AIRPORT	EVAP	-	.12	.00	-	.21	-	-	.05	.13	.02	.08	.22	.37	.11	.16	.31	.23	.09	.08	.12	.15	.38	.11	.15	.23	.26	.10	.17	.05	.20	.01	4.728
	WIND	18	55	8	4	8	8	13	21	120	22	30	89	235	61	64	223	209	75	51	59	49	138	99	76	148	115	51	69	47	36	48	2249
	MAX	71	80	80	73	78	74	77	75	78	75	80	81	75	80	81	81	84	75	83	83	84	82	84	81	81	79	72	78	72	77	75	78.4
	MIN	64	64	66	66	67	68	68	66	63	66	65	60	64	57	59	60	65	65	68	64	67	61	61	61	64	63	60	63	63	61	64	63.6

CLIMATOLOGICAL DATA

HAWAII
DECEMBER 1967
DELAYED DATA

Station	Temperature								Precipitation													
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days		Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days				
									90° or Above	37° or Below					Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More		
																					Max.	Min.
JUNE 1967 MOLOKAI AP 524	83.6	70.7	77.2		88	23	65	12		0	0	0	1.83		1.50	30	.0	0		3	1	1

DAILY PRECIPITATION

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * APRIL 1967																																	
GLINDA 332 A	*	*	*	1.88	.01	.02	.36	.01	*	*	.58	3.54	.21	.05	.19	*	*	1.00	.91					*	*	.41	*	.17	.01	T	*	*	*
* * * JUNE 1967																																	
MOHIHI UPR CROSS 1083	V41.91	*	*	*	*	24.40	.11																.11				.21	.11					*
MOLOKAI AP 524	1.83	.12	.18	.03	T						T																				1.50		

DAILY TEMPERATURES

Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
• • •																																	
JUNE 1967																																	
MOLOKAI AP 524		MAX	81	79	80	83	83	85	84	84	82	84	83	83	84	87	86	86	86	84	87	85	84	86	88	83	83	83	81	83	82	80	83.6
		MIN	71	68	69	74	69	70	73	73	71	71	71	65	71	70	72	69	69	69	72	72	69	72	71	71	76	75	70	69	70	70	70.7

See Reference Notes Following Station Index

HAWAII

[illegible]

STATION INDEX

HAWAII
DECEMBER 1967

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	
								TEMP.	PRECIP.	EVAP.	SPECIAL										TEMP.	PRECIP.	EVAP.	SPECIAL		
ISLAND OF HAWAII																										
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	BA	BA			PUNA SUGAR CO	PUU LAU 102-1	A 8452	05	HAWAIIA	5	19 50	155 36	7440						STATE DIV OF FISH-GAME
MAALIEHU 14	A 6588	03	KAU	3	19 04	155 35	673	BA	BA			HUTCHINSON SUGAR CO	PUU LEHUA 73	A 8460	04	N KOHA	4	19 34	155 49	4850						GREENWELL RANCH
NAPOOHA 28	A 6597	04	KONA	4	19 28	155 55	395	TA				KONA EXPERIMENT STA	PUU MAI 113	A 8515	01	HAWAIIA	1	19 55	155 26	6960						KUKIAU RANCH CO
NAUULU FOREST 38-0	6731	02	PUNA	2	19 19	155 08	1400	VAR				HAWAII VOLCANOES NAT PK	PUUOKUMAU 167	8548	01	N KOHALA	1	20 12	155 50	1800						KOHALA DITCH CO LTD
MAULI 179	A 8604	01	N KOHALA	1	20 14	155 45	75	BA				KOHALA SUGAR CO	PUU OO 82	8550	02	S HILO	2	19 44	155 23	9340						BILLINGHAM RANCH INC
KUKULA 223	7131	02	N HILO	2	20 01	155 17	430	TA				LAUPAHOE SUGAR CO	PUU WAIWAA 94-1	8555	05	N KOHA	5	19 47	155 51	2520						BOARD OF WTR SUPPLY
OPENHALL 2 2N-1	7168	04	KONA	4	19 16	155 53	1270	TA	TA			MISS C LEONARD	SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340						HUTCHINSON SUGAR CO
UREHID LAND 1ST 91-5	7185	02	PUNA	2	19 34	155 00	445	VAR				BOARD OF WATER SUPPLY	SOUTH POINT CORRAL 3	A 8678	03	KAU	3	18 57	155 41	400						FEDERAL ELECTRIC CORP
PAUHAU 277	7204	01	HAWAIIA	1	20 05	155 16	415	TA				PAUHAU JAVAR CO	5 POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	305						KUKIAU RANCH CO
PAU 150 221	7312	01	HAWAIIA	1	20 03	155 22	800	TA				HAWAIIA MILL CO	UMIKOA 118	8780	01	HAWAIIA	1	19 59	155 23	3420						U S COAST GUARD
PAHA 21	7421	03	KAU	3	19 12	155 29	870	BA	BA			HAWAIIAN AGR CO	UPULU POINT USCG 159-2	8830	01	N KOHALA	1	20 15	155 53	1	BA	BA				SHINICHI KANEISHIRO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670	BA				PUNA SUGAR COMPANY	WAIKAEA SCD 88-2	9025	02	S HILO	2	19 40	155 08	1050						KAHUA RANCH
PAKAG 37	A 7463	03	KAU	3	19 22	155 28	5000	HA				HAWAIIAN RANCH CO, INC.	WAIKONOUKA 178-0	9350	01	N KOHALA	1	20 08	155 47	3830						
PAPAIKOU 144A	7711	02	S HILO	2	19 47	155 09	200	TA				MAUNA KEA SUGAR CO.	CLOSED STATION													
PAPAIKOU MAUKA 140-1	7721	02	S HILO	2	19 47	155 08	1270	TA				PIPERCKO SUGAR CO	ISLAND OF MAUI													
PEPERCKO MAUKA 144	8000	02	S HILO	2	19 51	155 05	100	TA				STATE DIV OF FORESTRY	MALUHIA 482-2													
PIIHOHUA 89	A 8251	02	S HILO	2	19 44	155 10	1730	HA				STATE DIVISION OF PARKS	NEW STATION													
POHAKULOA 107	A 8083	02	HAWAIIA	2	19 45	155 32	6511	VAR				WILLIAM PATYNE	ISLAND OF MAUI													
PUAK 154	8186	05	KOHALA	5	19 59	155 50	N	BA				KUKIAU RANCH CO	KAHAULOA MAUKA 482-3													
PUU KINE 120	A 8393	01	HAWAIIA	1	19 54	155 24	7750	HA					2453 03 MAUI													

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS. Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME. Data in the "Monthly Extremes", "Daily Precipitation" table; "Daily Temperature" table; and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES. Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletins they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletins.
- MO Gage read once monthly, usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- Θ Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the Index, but for which data are not listed in the tables, were either missing or received too late to be included in this issue.

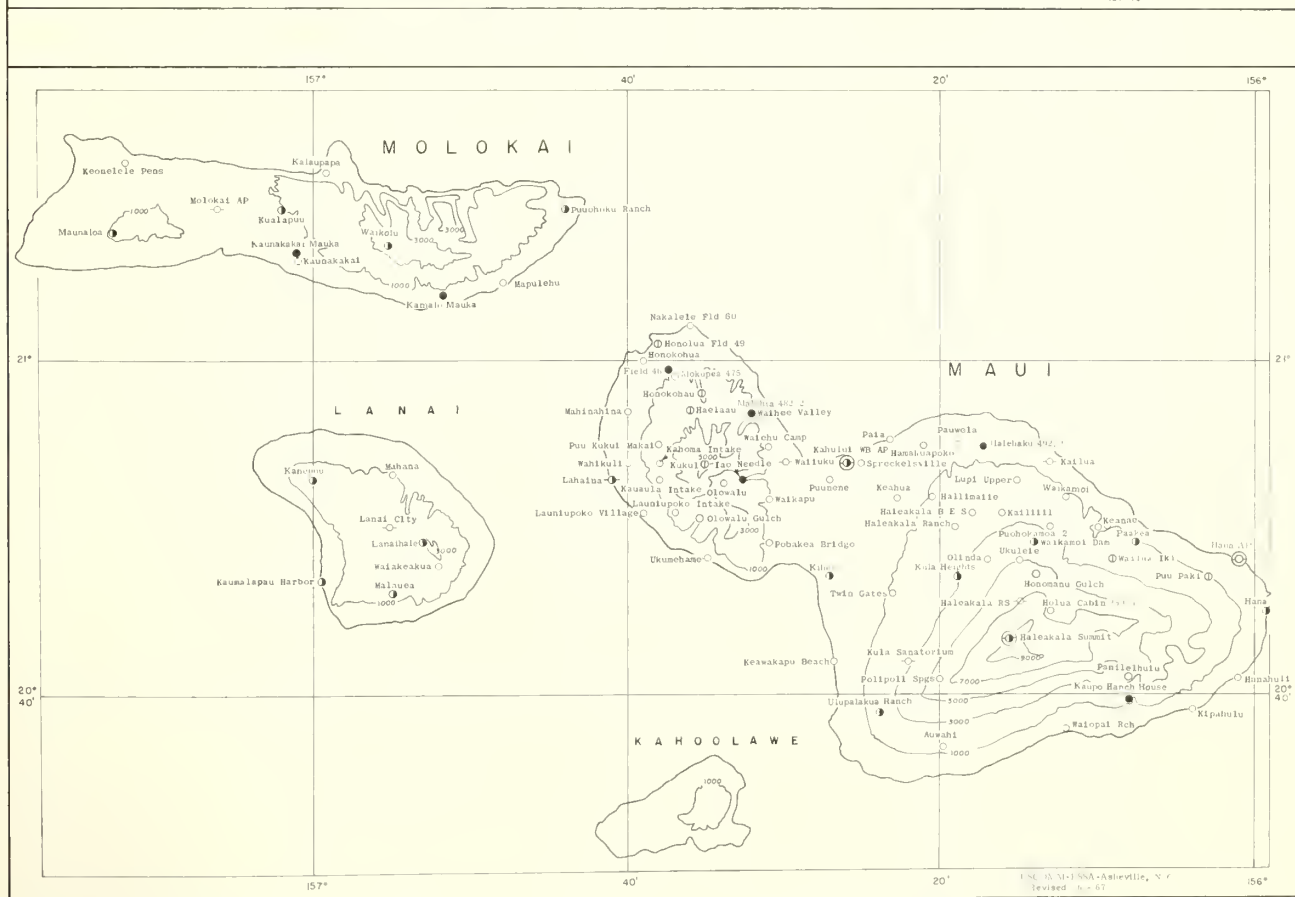
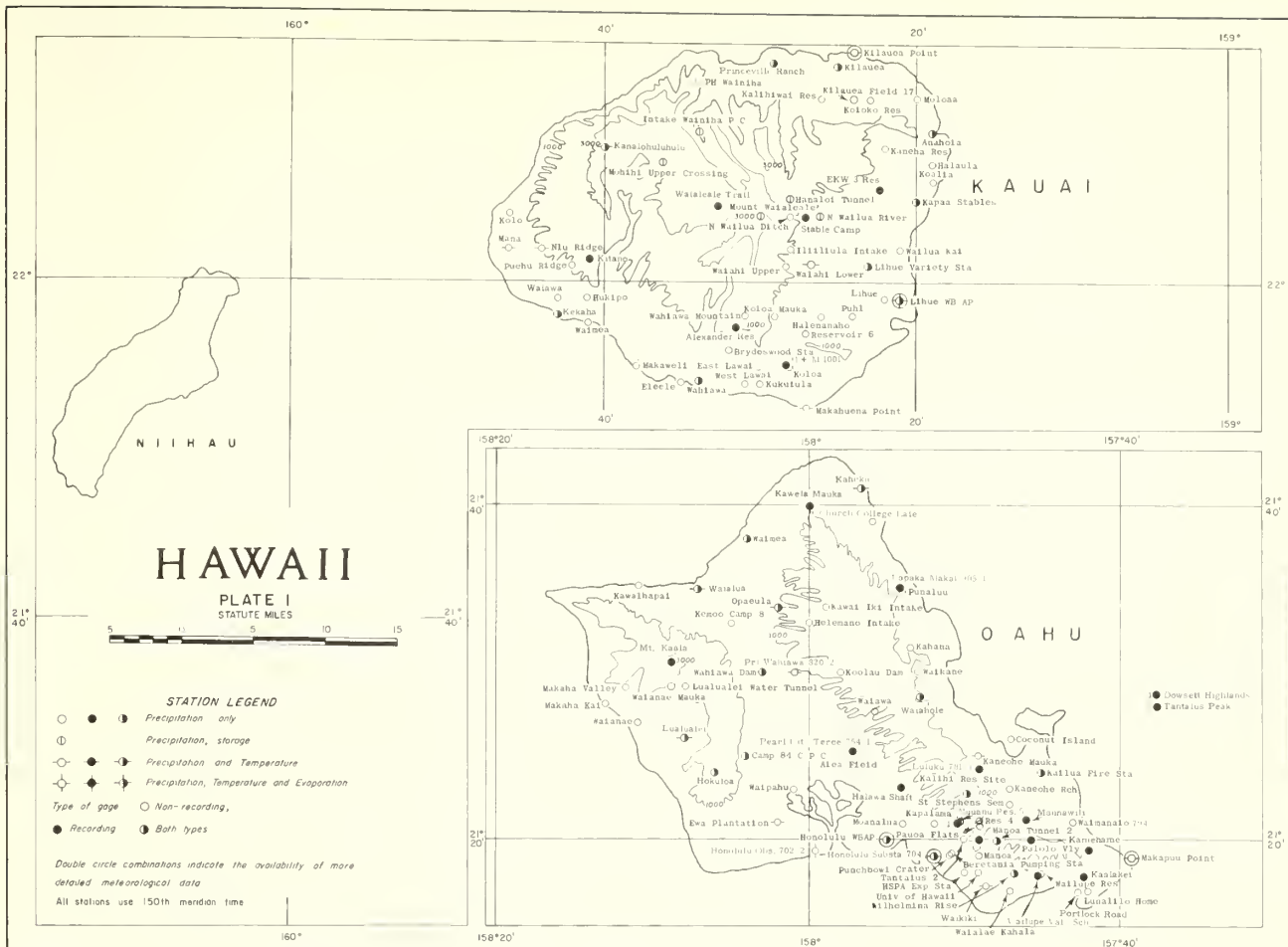
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

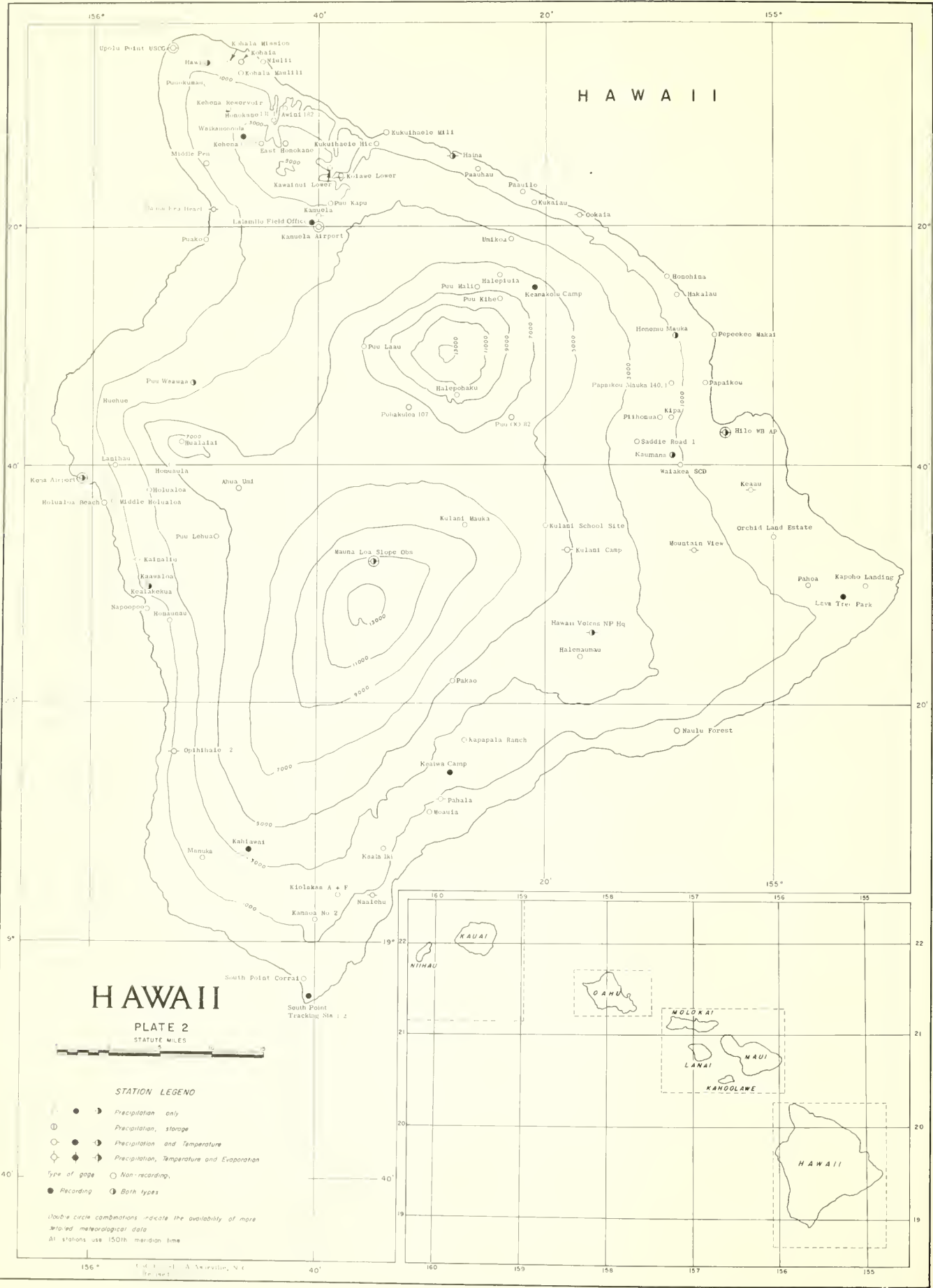
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

DATE	TABLE	DIVISION	STATION	CORRECTION
MARCH THRU JULY 1967	CLIMATOLOGICAL DATA		ALL TEMPERATURE STATIONS	NUMBER OF DAYS, MINIMUM TEMPERATURE, 0 OR BELOW, SHOULD BE 0
APRIL 1967	DAILY PRECIPITATION	ISLAND OF MAUI	OLINDA 352	DELETE ALL DATA. SEE DELAYED DATA FOR CORRECT DATA

USCOM-ESSA-ASHEVILLE-4/3/68-890





CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
C. R. SMITH, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

ANNUAL SUMMARY 1967

Volume 63 No. 13

JUN 17 1968

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
ISLAND OF KAUAI																										
KANALOHULU 1075	55.2		57.4		57.9		57.8		62.3		62.2		65.8		66.7		65.1		63.1		59.3		56.6		60.8	
KILUA POINT 1133	70.5		72.2		72.0		73.2		76.4		78.5		79.8		80.0		80.6		78.7		74.8		72.6		75.7	
LIHUE WB AIRPORT	69.5	- 1.4	71.8	1.1	71.4		+ 71.9	-	+ 75.8	1.3	77.1	+ 5	79.0	1.4	78.8		+ 79.0	+ 77.5	+ 74.9	+ 4	+ 69.9	- 2.3	74.7	+ 2	76.7M	
KAHUENUA POINT	72.3		73.4		73.2		74.0		77.4		79.1		79.9		79.7		81.0M		76.8		76.8		73.2		76.7M	
MAU 1026	70.5	- .6	72.0	1.0	71.9		+ 72.7	+ 0	76.5	1.8	77.4	+ 7	78.9	1.0	79.2	+ 9	78.7	+ 8	77.9	+ 9	74.9	+ 2	71.8	+ .3	72.0	+ 6
NIU RIDGE 1035	67.5		69.3		68.7		70.3		72.2		72.2		74.1		73.9		76.5		76.7		72.9		68.7		72.0	
WAIAMI LOWER 1054	66.9		67.8		67.6		67.7		71.4		72.5		73.4		74.6		75.6		74.0M		70.6		68.7M		70.9M	
ISLAND	66.5		68.2		68.2		68.7		72.5		73.5		75.2		75.8		75.8		74.2		70.9		67.9		71.5	
ISLAND OF OAHU																										
EWA PLANTATION 741	71.0	+ 0	72.2	1.3	72.4	+ 6	73.2	+ 1	76.9	2.0	77.4	+ 6	79.6	1.9	79.7	1.4	79.6	2.0	78.0	1.4	75.3	+ 8	72.4	+ 0	75.6	1.0
HONOLULU WAP 703	72.5	+ 0	73.9	1.5	73.8	1.0	74.7	+ 5	78.2	2.3	79.7	1.8	81.5	2.7	82.1	2.7	82.4	3.2	80.6	2.4	77.6	1.7	74.0	+ 4	77.6	1.7
HONOLULU SUBSTA 704	72.1	- .1	73.5	1.6	72.9	+ 7	73.9	+ 7	76.6	1.7	77.7	+ 9	79.2	1.5	79.6	1.2	79.9	1.6	78.8M	1.4	75.5M	+ 1	72.5	- .8	76.0M	
KAHUKU 912	70.3M	- 1.1	72.0M	+ 4	70.7M	- 1.1	+ 75.8M	+ 9	76.7M	+ 0	M	+ 78.0M	- .3	M	-	M	78.5M	1.2	76.7M	1.9	M	-	73.1	-	76.9	
KANEHE MAU 781	70.6	- .9	72.4	1.2	71.5	+ 2	72.8	+ 3	75.6	1.4	76.9	1.0	77.8	1.3	77.7	+ 6	77.9	1.1	77.5	1.4	68.6	- 5.6	72.1	+ 0	74.3	+ 2
MAKAPOU POINT 724	70.4		72.0		70.9		73.5		76.0		77.7		77.6		77.6		77.7		77.2		74.6		71.7		74.7	
OPAHELA 870	67.8	1.0	68.1	1.4	69.7	1.9	69.7	1.3	73.0	3.2	74.8	2.0	76.8	2.6	74.3	1.5	75.3	2.1	75.7	2.9	73.0	1.7	71.9	M	73.1M	
PRI WAIHI 820.2	68.5M		69.7M		69.5		70.5		74.2M		74.8		76.9M		77.3		77.4M		75.6M		73.0		69.3		73.1M	
WAILAUA 847	68.9	- 1.6	70.3	+ 1	70.9	+ 6	71.2	- 3	75.0	1.6	75.9	+ 6	76.9	+ 7	77.3	+ 6	77.1	+ 8	76.5	1.1	73.7	+ 3	71.9	+ 7	73.8	+ 4
WAIKIKI 717.2	71.9		74.0		73.8		74.5		78.7		79.3		81.0M		81.1		80.8		79.9		77.1		73.7M		72.2M	
ISLAND	70.1		71.6		71.2		72.4		75.8		76.8		78.1		78.2		78.4		77.6		74.2		72.1		74.7	
ISLAND OF MOLOKAI																										
MOLOKAI AP 524	70.3		71.3		71.5		73.1		75.8		77.2		77.7		78.0		78.0		77.3		75.0		71.9		74.8	
ISLAND	70.3		71.3		71.5		73.1		75.8		77.2		77.7		78.0		78.0		77.3		75.0		71.9		74.8	
ISLAND OF LANAI																										
LANAI CITY 672	66.3	+ 7	67.7M	2.2	67.7	1.7	70.4	3.4	71.2	2.7	71.9M	1.8	72.2	1.1	72.5	+ 6	72.7	1.2	72.4	1.7	70.4	1.8	67.8	1.3	70.3M	1.7
ISLAND	66.3		67.7		67.7		70.4		71.2		71.9		72.2		72.5		72.7		72.4		70.4		67.8		70.3	
ISLAND OF MAUI																										
HALEAKALA PS 338	49.1		51.4		51.6		50.4		54.1		56.0		57.9		57.4		56.0		55.9		51.8		49.6		53.5	
HALEAKALA SUMMIT 338.4	40.6		42.2M		43.3		44.5M		50.8M		53.0M		52.5M		51.4		50.7		49.1M		44.7		42.2M		47.1M	
HANA AIRPORT	71.0		72.8		72.2		73.3		77.4M		78.0		79.2		78.5		78.6		77.8		75.8		72.6		75.6M	
KAHULUI WE AP	71.1	- 1.0	72.1	+ 4	72.2	+ 1.0	72.6	- .8	76.7	1.4	77.2	+ 0	78.8	+ 5	78.1	- 1.2	77.7	- .7	77.3	- .1	74.3	- .7	71.7	- 1.3	74.9	- .3
KAHULUI 446	68.9	- 1.5	69.4	1.5	69.1	1.0	69.9	- .8	73.9	3.5	73.1	1.2	73.6	+ 9	74.1	+ 9	74.2	+ 9	73.2M	+ 5	70.4	+ 5	69.4	+ 5	71.5M	+ 8
KULA SANATORIUM 267	60.5	- .9	61.3	+ 2	62.1	+ 9	62.0	+ 0	64.9	1.4	65.6	+ 7	67.1	1.1	66.0	- .7	66.1	- .4	66.3	+ 1	64.2	- .2	67.3	+ 0	64.0	+ 1
LAHAINA 361	71.2		72.5		72.5		74.1		76.6		77.3		79.3		79.7		79.4		77.4		74.4		71.4		76.1	
WAILUKU 392	70.9M	- .8	72.6M	1.3	71.9	+ 4	72.9	+ 3	76.0	1.6	76.3		-		M		78.5	+ 7	77.4	+ 4	74.3	+ 5	71.4	- 1.2	-	
ISLAND	65.8		67.5		67.4		67.9		71.4		71.2		72.7		72.3		73.0		72.5		69.8		67.3		69.9	
ISLAND OF HAWAII																										
HAINA 214	66.8	- 2.7	68.9	- .4	67.8	- 1.7	69.4	- .6	73.7	2.3	75.3	2.3	76.1	2.0	76.2	1.7	76.4	2.1	75.6	1.6	71.2	- .6	69.9	- .3	72.3	+ 3
HAWAII VOLCONS NP HO 56	54.8	- 1.3	58.1	+ 2	59.0	1.1	59.5	+ 4	61.8	1.2	62.7	+ 7	64.2	1.3	64.1	+ 5	64.0	+ 7	63.5	+ 59.9M	- .9	58.8	+ 1	61.0M	+ 4	
KAHUNA AIRPORT	71.9	- 1.1	73.9	3.3	76.1	3.5	74.3	2.7	77.1	4.1	77.5	3.2	77.6	2.9	77.1	1.3	77.0	1.5	77.2	2.1	75.4	2.2	73.3	1.8	75.6	2.5
KAINALU 738	67.3		67.5		68.8		69.3		70.7		71.1		72.5		72.5		72.4		71.6		70.6		69.1		70.3	
KAMUELA 192.2	60.6		62.6		63.3		63.2		66.1		67.1		67.9		68.2		68.6		67.3		64.4		62.6		65.2	
KAMUELA AIRPORT	60.4		61.0		63.3		63.8		66.5		67.4M		67.6		68.1		68.6		67.0		64.0		60.9		64.9M	
KEAU 92	69.5	- .8	71.1	+ 8	71.5	1.2	71.8	+ 7	74.6	2.1	75.1	1.4	76.0	1.6	75.3	+ 2	76.0	1.1	75.9	1.4	73.5	+ 9	71.7	+ 7	73.5	+ 9
KEALAKEUA 26.2	-		-		70.1		70.6		72.0M		72.2		73.6		73.2		73.1		72.4		71.3		71.3		73.2M	
KONA MISSION 175.1	69.1	- .4	70.5	+ 1.1	70.4	1.0	71.2	+ 9	74.1	2.2	75.0	1.6	75.7	1.6	76.5	1.4	76.5	1.9	76.0	1.0	72.7M	+ 7	71.0	+ 9	73.2M	1.2
HOONA AIRPORT 68.3	71.3		72.4		72.3		73.0		77.0		77.3		78.1		78.8		78.3		76.5		74.1		73.0		75.2	
KULANI CAMP 79	51.2		53.4		55.8M		54.1		56.0		56.6		58.2M		58.1M		58.1M		57.4M		55.1M		54.5		55.7M	
MAUNA KEA BEACH	74.1		74.5		75.5		76.9		79.0		79.7		81.3		81.4		81.5		80.5		80.4		75.7		78.4	
MAUNA OLOA BEACH OBS	30.2		30.2		30.4		30.4		33.4		34.8		37.4		38.2		38.4		37.4		35.4		34.4		38.8	
MOUNTAIN VIEW 91	64.8		66.0		66.6		66.8		68.8		70.2		70.9		70.4		70.6		70.4		67.4		66.2		68.3	
NAALEHU 14	70.4		70.9		71.1		72.0		73.8		74.8		75.6		75.5		76.1		76.0		73.9		71.7		73.4	
OOKALA 223	69.8	- 1.0	71.7	1.5	71.0	+ 6	72.2	1.0	74.6M	1.8	75.7	1.4	76.0	1.2	76.4	+ 9	77.2	1.7	76.5	1.5	72.7	- .3	71.8	+ 7	73.8M	+ 9
OPHIHALA 2 24.1	65.5		66.0		68.4		68.7		70.8		70.8		73.2		73.5		73.8		72.7		68.2		67.6		69.5	
PAHALA 21	68.7	- .3	68.8	+ 0	68.9	+ 0	69.9	+ 1	71.7	+ 7	72.2	+ 0	73.9	+ 7	73.0	- 1.0	73.4	- .3	73.6	+ 4	72.4	+ 6	69.8	+ 3	71.4	+ 1
UPOLU POINT USCG 159.2	72.0		73.1		72.8		73.9		76.0M		77.1		78.5		78.2		78.9M		78.0		75.3M		74.3		75.7M	
ISLAND	65.8		67.0		67.9		68.4		70.9		71.6		72.7		72.5		72.6		72.0		70.0		68.0		70.0	

Island averages in the annual issue include delayed and corrected data and may differ slightly from values published in monthly issues.

A Special Weather Summary describing unusual weather in 1967 was included in the February and September issues of this publication.

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII
1967

Table 2

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	
ISLAND OF KAUAI																											
ANAHOU 1111	A	4.38	2.34	6.96	1.50	10.74	4.53	4.03	.08	8.35	5.40	1.48	.17	2.72	.33	2.31	.58	1.76	.37	1.91	3.01	6.80	2.04	14.24	8.84	65.68	16.09
BYRONWOOD STA 985	A	4.78	1.59	6.30	.14	10.14	4.37	5.16	1.59	4.32	1.00	.95	.26	3.43	.67	4.84	.30	3.31	.21	3.97	1.09	13.92	8.55	11.98	4.78	77.10	17.49
EAST LAWA 934	A	7.48	.66	4.84	1.19	13.16	7.16	3.14	.22	6.34	2.54	1.06	.26	4.46	.51	5.24	.93	3.39	.75	3.83	1.47	8.20	2.32	11.15	4.11	72.29	8.03
FLEETE 927	A	3.95	.85	2.11	1.83	6.08	2.75	.81	.88	3.43	2.11	.50	.50	.60	.60	2.67	.57	1.52	.87	1.52	.87	7.01	4.06	6.74	2.56	37.26	6.54
HALAULA 1110	A	4.70	2.21	6.89	1.54	13.26	7.22	4.02	.10	10.05	7.07	1.63	.28	2.29	.03	2.29	.61	2.83	.54	2.90	1.69	6.31	1.12	15.32	9.60	72.49	22.63
HALENAHOU 1006	A	8.39		12.91		13.10		3.24		10.08		3.29		5.92		7.31		5.58		4.61		12.05		12.48		98.96	
HUKIO 945	A	2.45		2.56		7.18		.71		2.60		.36		.36		2.28		1.03		1.83		3.72		10.62		35.70	
ILILIULA INTAKE 1050	A	13.04		17.25		23.69		19.17		32.79		6.31		15.81		14.12		8.05		12.44		25.59		30.59		218.85	
INTAKE WAINIMA PK 1086	A	27.86		14.43		23.55		19.75		26.88		2.36		8.13		7.31		8.32		9.89		41.81		37.85		234.16	
KALIMAI RES 1131	A	9.17		12.57		20.97		9.84		13.39		2.53		10.44		10.62		4.45		5.53		14.49		17.39		131.39	
KANALOHU 1075	A	13.68		4.46		11.43		7.95		6.51		1.47		3.36		.89		1.72		3.54		11.13		40.18		106.32	
KANEHA RESERVOIR 1092	A	11.97		10.39		17.95		10.34		16.71		3.61		4.40		7.11		4.24		4.85		13.77		22.06		127.20	
KAPAA STABLES 1104	A	7.41		6.51		13.01		3.49		9.46		1.18		2.47		3.08		2.16		2.69		6.67		12.64		70.97	
KEALIA 1112	A	4.99	.89	7.98	3.29	12.04	6.74	2.91	.45	9.91	7.72	1.29	.34	1.64	.27	1.86	.67	1.57	.53	2.03	1.77	5.07	.58	13.06	8.23	64.35	21.64
KERAMA 944	A	1.85	1.83	1.84	1.08	5.43	2.90	.29	.78	2.11	1.33	.35	.01	.23	.15	1.95	.98	.65	.03	1.64	.20	2.72	1.13	8.97	5.68	28.03	7.96
KILAUEA 1134	A	6.50	1.63	8.98	2.86	14.24	6.85	5.60	.09	11.63	6.63	.97	.30	3.89	.55	5.05	.05	3.31	.30	3.41	1.73	9.69	3.02	10.83	3.63	84.10	16.63
KILAUEA FIELO 17 1135	A	7.90	2.19	11.20	3.02	19.79	9.91	8.04	.23	12.92	5.33	1.47	.28	6.97	.22	6.69	1.00	5.30	.02	4.70	2.37	12.34	3.08	15.97	6.46	113.79	20.65
KILAUEA POINT 1133	A	5.94		10.48		10.74		3.92		7.92		.56		2.54		2.91		3.34		2.69		9.77		12.95		73.76	
KOLO 1033	A	5.59		1.14		6.12		.87		1.76		.76		.39		.55		.69		1.89		2.79		11.34		34.24	
KOLOA 936	A	7.78	.87	9.58	3.34	14.01	7.38	4.55	.18	6.04	1.69	2.57	1.12	4.72	.34	7.13	.61	3.91	.47	3.62	1.69	10.81	4.74	11.51	3.89	86.23	18.72
KOLOA MAUKA 994	A	9.22	.55	12.55	3.22	15.90	7.25	4.98	1.68	11.88	5.72	3.72	2.00	7.55	.18	8.97	.17	5.45	.93	6.39	1.55	16.02	7.75	14.55	4.36	117.18	21.94
KOLOKO RES 1137	A	9.99		8.94		17.84		6.35		14.31		2.18		6.76		5.89		4.80		5.00		11.17		10.64		112.87	
KUKUIULA 935	A	5.33	.03	4.97	.50	9.89	5.53	2.82	.41	1.87	.04	.68	.73	1.77	.29	3.44	.20	1.76	.50	2.13	1.24	7.53	3.52	8.76	3.15	50.95	10.48
LILUKE VARIETY STA	A	8.99		7.83		11.93		2.96		7.39		3.35		5.89		4.91		E 4.68		E 5.71		10.08		13.38		87.10	
LILUKE 1020	A	6.64	.19	7.68	1.96	10.71	5.19	2.38	1.48	4.12	.38	3.37	1.08	2.38	.40	3.20	.33	2.58	.32	3.28	1.70	6.24	1.11	11.61	5.43	64.19	11.11
LILUKE NB AIRPORT	R	5.59	.08	6.59	1.27	8.91	4.35	1.60	.17	4.05	1.46	2.09	.63	1.84	.10	1.98	.48	1.56	.52	1.85	2.18	4.43	.10	12.79	7.61	53.28	10.28
MAKAHUEI POINT	A	3.66		4.43		13.02		1.30		4.06		.19		1.19		1.95		1.07		1.17		5.13		9.19		46.76	
MAKAHUEI 965	A	2.63	1.26	1.80	1.84	6.06	3.56	1.62	.49	2.96	2.10	.19	.18	.32	.29	2.36	1.13	.72	.16	1.21	1.04	4.22	2.05	8.74	5.34	32.83	9.90
MAHA 1026	A	3.59	.47	1.37	1.44	7.50	4.85	.34	.91	1.27	.37	.69	.05	1.64	.04	1.84	.06	1.84	.87	1.11	1.24	1.64	.41	10.83	7.53	31.55	9.10
MONIHI UPD CROSS 1083	A													1.64		1.84											
MOLOAA 1145	A	5.60	1.31	6.67	.97	13.23	6.75	3.58	.53	10.05	6.70	1.69	.02	2.66	.28	2.51	.54	1.54	.64	2.57	2.05	5.11	.10	14.88	9.67	70.09	19.38
NAI'IA 1035	A	3.72		1.88		8.28		.52		3.59		.48		1.07		1.66		5.10		1.07		2.22		13.14		42.73	
NAILUUA OIUCH 1051	A	16.54		19.83		25.72		25.15		42.23		8.54		16.59		15.91		8.77		13.76		26.44		35.26		254.74	
PRINCEVILLE RANCH 1117	A	6.49	1.84	9.97	2.59	16.31	6.73	10.09	3.31	11.43	5.09	.90	.12	8.08	1.91	8.64	1.32	4.47	.35	3.89	1.62	17.65	2.90	18.97	9.77	118.38	33.29
PUEHU RIDGE 1040	A	3.62		2.88		8.27		1.39		5.49		.40		2.09		1.91		5.82		2.43		3.14		14.41		51.85	
PUEHU 1013	A	6.67		9.89		11.46		3.43		5.53		2.79		3.09		4.77		4.05		4.15		8.81		13.04		77.68	
RESERVOIR 6 1004	A	8.39	.95	12.31	5.11	13.92	6.91	3.09	1.99	9.15	4.67	4.55	.70	5.68	.34	6.65	.30	5.32	.57	5.13	.94	13.55	6.80	13.31	5.29	101.05	28.20
WAIKANA 930	A	3.63	1.40	3.10	1.16	7.90	3.90	1.42	.78	3.05	1.55	.34	.58	2.54	.74	2.95	.63	2.02	.38	2.02	1.03	7.18	.69	7.99	3.50	53.77	7.72
WAIKANA MOUNTAIN 990	A	9.50	3.79	18.50	6.17	27.00	13.99	11.75	.51	15.50	4.67	6.00	5.28	15.50	1.52	14.50	1.17	11.75	.96	8.13	3.58	28.50	15.70	25.50	11.38	192.23	41.08
WAIKANA LOWER 1054	A	8.81		15.52		19.70		8.29		17.15		5.21		10.79		10.32		8.65		10.44		17.59		21.77		154.24	
WAIKANA UPPER 1052	A	12.00		16.70		22.39		15.23		23.75		3.89		14.47		12.53		8.06		10.77		21.75		24.65		186.28	
WAIKANA 943	A	1.90	2.02	5.51	1.16	13.46		2.96		4.33		2.05	.23	2.12	.41	2.88	.21	.73	.01	1.75	1.20	2.04	.43	8.91	5.63	25.49	4.94
WAIKANA KAI 1065	A	6.80		5.51		13.46		2.96		4.33		2.05	.23	2.12	.41	2.88	.21	.73	.01	1.75	1.20	2.04	.43	8.91	5.63	25.49	4.94
WAIKANA 947	A	2.39	1.29	2.30	1.10	5.61	3.25	1.00	.13	2.16	1.31	.29	.01	2.11	.36	2.65	1.41	.86	.20	2.53	.62	3.17	1.43	9.33	5.98	32.40	11.53
WEST LAWA 931	A	4.61	.89	5.29	.58	10.58	6.18	2.78	.24	3.69	1.66	.91	.91	1.70	.73	3.57	.30	1.92	.55	2.80	.89	9.45	5.15	9.67	4.37	56.95	14.51
ISLAND	A	7.50		8.13		13.62		5.89		10.12		2.09		4.70		5.09		3.81		4.24		11.15		17.96		94.30	
ISLAND OF OAHU																											
ATEA FIELD 625 761	A	2.33	2.53	2																							

Table 2-Continued

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII
1967

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
WAIANAE MAUKA 803	7.22	1.56	3.65	4.00	16.02	8.16	8.62	3.83	5.32	1.17	3.93	.81	7.33	3.51	5.57	1.21	2.10	1.17	2.10	3.28	6.48	1.69	19.71	10.67	88.05	21.04
WAIANA 836	6.97	4.67	12.39	.55	17.20	3.36	12.90	1.50	11.81	.97	5.51	5.33	15.43	2.13	19.83	5.42	7.22	2.75	14.36	3.34	21.26	9.14	15.51	.02	161.37	12.58
WAIKANE 885	4.76	7.11	13.49	.27	19.06	3.82	10.95	.35	25.13	13.27	9.13	1.15	14.23	3.47	23.68	12.01	8.06	2.48	19.01	7.08	11.98	.82	23.60	9.56	183.28	38.79
WAIKIKI 717.2	1.44		4.10		6.52		2.40		2.31		.75		.91		4.06		1.58		1.49		1.01		14.06		40.63	
WAILURE RESERVOIR 170	3.45		5.98		10.23		2.88		3.48		1.63		3.99		8.30		3.23		3.66		3.38		18.60		68.81	
WAIMANALO 794	3.91		6.43		14.17		3.38		7.85		3.42		5.32		5.29		3.20		2.83		2.15		23.10		81.05	
WAIMEE 892	3.55	1.83	3.51	2.39	8.37	3.03	3.60	.35	2.06	.60	1.59	.95	3.46	.47	3.95	.51	2.59	.67	2.63	1.28	6.09	2.52	8.83	3.31	50.83	3.81
WAIHUA 750	1.16	3.00	1.85	1.84	6.06	2.88	3.10	1.22	2.05	.85	1.48	.88	1.89	1.22	2.50	1.27	.13	.95	1.09	1.25	3.63	.47	8.84	5.30	33.18	7.05
WILHELMINA RISE 721	3.34	1.29	6.20	2.18	8.94	4.42	3.08	.12	5.34	2.90	1.18	.28	3.78	1.92	8.76	6.51	2.20	.54	2.80	.48	3.48	.44	17.90	13.62	67.00	30.36
ISLAND	3.08		5.50		10.58		4.98		5.54		3.51		5.17		7.78		3.13		4.80		6.82		13.43		74.32	
ISLAND OF MOLOKAI																										
KALAUARUA 563	6.82		5.90		14.40		3.87		2.12		1.40		1.50		3.14		.06		2.63		4.10		5.76		51.70	
KAUNAKAKAI 536	3.97		3.24		6.66		.36		1.67		1.88		.00		.00		.08		.73		1.46		8.03		27.08	
KOONOPELE PENS 551	3.70		2.75		9.13		2.99		2.90		2.12		1.54		1.36		1.08		.94		1.44		6.37		40.13	
KUALARUU 534	7.16	3.02	4.71	1.07	10.51	5.95	3.13	.07	4.82	3.24	1.26	.59	.84	.04	2.52	1.30	.84	.06	1.35	1.07	2.53	.57	10.43	6.17	50.10	19.79
MAHOLEU 542	5.75	1.89	3.25	.85	12.78	8.56	2.87	.18	3.10	.39	3.23	1.04	2.73	.21	6.09	5.19	1.94	.64	3.32	.69	3.77	.12	9.53	5.32	60.36	20.52
MAUNALO 511	6.34	2.07	2.33	.75	8.63	4.86	2.76	.45	5.38	3.91	1.12	.37	2.76	1.50	1.79	.59	3.75	2.64	1.61	.76	6.32	2.12	7.70	4.20	44.80	16.96
MOLOKAI AR 524	6.23		4.55		9.40		2.93		5.74		1.83		1.13		1.44		.17		3.23		1.19		8.87		43.97	
PUUOHOKU RANCH 542.1	5.47		2.30		14.34		2.98		4.07		2.74		2.48		6.62		1.61		3.23		4.62		9.05		59.51	
WAIKOLU 540	20.45		8.46		20.60		10.05		10.31		2.32		8.86		6.57		1.74		3.18		15.62		21.25		129.41	
ISLAND	6.37		3.71		10.33		2.92		4.76		1.86		1.87		3.46		1.68		1.69		2.03		9.13		49.81	
ISLAND OF LANAI																										
KANEPUU 690	5.17		2.38		9.67		1.27		4.36		3.47		7.46		1.61		1.77		2.54		2.92		6.86		49.48	
KAUNAKARUU HARBOR 658	4.79		1.09		7.18		.39		3.33		1.54		1.83		1.26		1.17		1.18		1.14		5.72		30.00	
LANAI CITY 672	7.94	3.32	2.75	.75	10.09	5.76	4.41	1.49	6.07		7.43	.94	5.73		9.94		4.08	1.78	1.96	.99	1.48		5.74		66.47	31.48
LANAIHALE 684	7.36		3.88		6.32		6.99		9.86		3.51		7.72		4.14		6.00		4.52		4.30		11.59		78.19	
MAHANA 694	5.62		1.54		7.38		2.82		7.80		2.65		9.11		2.14		1.03		1.67		2.77		8.94		53.47	
HALAUEA 676	5.06		.62		7.68		1.59		4.97		2.70		.70		1.53		2.60		2.06		.12		10.22		39.85	
WAIKAEKUA 685	8.51		2.91		9.74		4.36		10.48		2.94		3.14		1.00		3.50		6.36		1.14		13.45		67.53	
ISLAND	7.94		2.98		10.09		4.41		8.74		2.36		7.45		2.72		4.05		1.96		4.31		9.46		66.47	
ISLAND OF MAUI																										
AUHAHI-252	3.32		1.01		9.24		3.69		6.05		2.22		7.30		4.10		.25		1.20		1.65		11.69		51.72	
HALEAKALA B E S 434	12.57	5.17	7.44	1.68	12.12	2.91	6.22	1.74	1.64	2.76	4.64	1.86	4.43	.30	5.51	.83	.70	1.60	4.58	.29	15.54	9.30	11.20	.74	86.59	13.62
HALEAKALA RANCH 432	9.29	3.46	3.51	.29	9.03	3.25	5.71	1.09	1.25	1.59	2.91	2.01	3.88	2.36	2.99	.82	.41	.91	1.38	1.29	7.22	3.78	8.39	1.78	54.97	11.77
HALEAKALA RS 338	13.15		2.83		9.83		7.60		3.66		2.66		2.28		8.32		1.32		2.61		7.28		10.55		72.09	
HALEAKALA SUMMIT 338.4	5.50		1.44		15.62		5.01		3.30		2.67		2.78		11.13		.73		2.01		5.35		12.38		67.41	
HALIIMAILLE 423	5.24		3.82		9.08		3.29		1.39		2.98		3.96		2.47		3.40		1.06		7.17		8.25		52.11	
HANAKUAHOKO 485	5.54	.77	4.57	.13	9.84	4.30	2.53	2.36	1.00	2.28	2.69	.08	5.28	1.82	5.43	1.73	1.09	1.05	1.64	1.83	9.75	5.72	9.98	3.89	59.34	10.50
HANA 354	5.06		2.50		9.89		6.88		4.21		8.71		4.32		7.13		3.98		6.37		9.57		8.58		77.59	
HANA AIRPORT	5.47		5.40		17.19		10.31		8.75		6.14		6.88		9.40		4.57		6.80		9.89		8.03		92.40	
HANAHULI 281	5.59		2.87		12.66		3.79		7.60		6.06		6.43		6.99		6.74		9.82		11.82		8.50		88.40	
HOLUA CABIN 259.5	8.83		3.17		14.00		5.97		3.81		3.46		2.51		7.42		.51		1.91		12.06		5.28		68.93	
HONOKOHU 480	14.16		18.40		13.60		11.50		11.30		3.30		14.76		14.30		3.90		7.00		20.00		16.80		149.92	
HONOKOHU 493	5.50	1.44	3.82	.08	15.27	11.19	4.20	1.02	3.31	1.05	1.17	.51	3.73	1.35	3.29	.71	1.08	.60	2.08	.60	4.68	1.38	10.92	6.27	59.05	22.76
HONUNANU GULCH 341	15.80		5.00		13.62		7.40		3.40		4.20		5.20		8.80		3.00		2.00		16.20		8.80		95.42	
KAHOMA INTAKE 374	13.94	4.59	10.53	.61	16.86	5.86	10.19	1.06	6.71	1.60	4.46	2.69	8.17	.59	5.15	2.52	2.80	1.81	4.12	1.72	17.66	9.91	19.04	5.86	119.63	16.38
KAHULUI WB AR	3.85	.71	2.13	.41	10.90	8.68	1.19	.25	2.05	1.36	2.50	2.32	1.12	.69	1.33	.98	.08	.17	.77	.10	1.69	.17	5.09	2.39	32.70	16.37
KAILIHI 436	16.27	5.45	14.34	1.07	13.79	14.11	10.75	3.95	5.24	5.04	5.79	1.00	8.62	.49	9.37	.34	1.65	3.81	3.31	4.24	28.12	17.38	15.44	1.91	132.89	1.64
KAILUA 446	6.97	1.57	8.47	2.00	18.00	5.82	9.01	2.52	5.58	4.34	5.65	1.92														

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII
1967

Table 2-Continued

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	
ISLAND OF HAWAII																											
AHUA UMI 75	2.60	.53	1.10	-1.07	2.40	-.59	5.70	3.42	3.80	1.34	1.30	-.42	5.40	3.53	1.30	-1.69	2.72	1.10	2.60	.71	1.80	-.20	2.98	1.70	33.70	8.76	
AINI 182.1	16.22	5.00	8.54	2.89	13.09	2.90	12.89	-.04	8.38	4.03	4.54	3.63	16.41	3.75	9.14	3.17	3.06	3.27	4.99	3.69	22.88	12.67	9.25	4.64	129.39	10.24	
FAST HONOLULU 183.2	19.45	6.32	9.40	3.53	11.20	7.73	13.05	5.49	5.25	9.02	5.62	7.08	17.75	1.49	8.83	7.56	4.24	4.36	7.62	1.91	22.54	10.56	12.36	5.70	137.31	34.01	
HAINA 214	8.69	3.63	4.35	2.57	10.41	1.85	6.98	-.49	2.97	1.95	1.72	-.20	4.21	7.75	6.55	1.01	5.1	1.78	2.26	2.99	18.65	12.98	7.23	4.7	74.53	10.47	
HAKALAU 142	11.81	1.16	5.33	8.25	15.06	-.17	15.20	2.85	8.04	1.81	6.96	-.13	14.44	4.61	19.32	7.54	6.84	3.03	7.77	3.48	27.60	15.26	20.08	5.46	156.00	26.41	
HALEMAUMAU 52	1.98		3.74		8.30		7.18		4.37		2.45		2.56		9.20		.89		1.73		13.90		13.92		70.22		
HALEPIULA 117	8.28	4.56	2.45	3.29	5.93	1.03	6.85	2.78	5.52	3.33	3.93	2.90	2.15	.52	8.16	4.39	.20	1.44	1.83	1.68	15.23	11.98	3.62	1.83	64.15	21.19	
HALEPOHAKU 111	2.00		.32		2.60		6.19		1.78		1.14		1.67		1.6		.52		5.06		5.06		3.42		22.24		
HAWAII VOLCANO NP HO 54	9.35	6.87	8.16	2.09	10.67	1.31	13.27	4.87	6.57	.90	4.58	.05	8.25	3.13	12.59	5.00	2.34	2.75	3.71	3.17	23.22	13.04	19.22	9.08	118.33	19.88	
HAWI 168	6.68	1.98	5.74	1.40	4.48	.74	3.02	2.02	4.37	.81	1.67	1.29	4.43	.50	3.36	.83	1.30	-.97	1.72	1.89	4.49	.47	5.72	-.20	46.98	2.78	
HULO NR AIRPORT	8.04		10.35	2.59	9.46	-.54	21.26	9.34	9.84	.51	6.26	-.53	14.03	4.21	19.55	8.10	6.78	-1.72	10.08	-.72	21.25	7.88	17.10	1.92	154.00	17.38	
HOLUALOA 70	2.80	-1.71	1.54	-1.23	8.00	1.76	6.66	.51	8.00	2.00	3.50	-.62	12.40	4.02	6.73	1.12	6.40	-1.71	5.40	-.47	2.90	-1.24	4.45	1.99	72.78	-.59	
HOLUALOA BEACH 68	1.30	-1.00	3.12	1.26	2.59	.12	2.84	.53	.55	2.10	2.40	.93	4.07	1.53	3.93	1.07	3.37	.66	1.84	-.64	2.67	.90	2.42	.84	31.10	2.26	
HONAUUA 27	3.47		4.69		8.22		6.01		4.94		6.82		13.61		7.41		6.15		7.27		3.94		3.24		75.07		
HONOHINA 137	12.76	1.01	6.06	9.59	17.23	.71	15.18	.31	7.11	5.20	6.01	1.71	14.69	2.72	19.93	6.19	5.60	3.61	6.50	6.37	37.71	24.00	22.20	5.01	170.98	11.43	
HONOKANE 181.1	17.96	6.41	9.91	2.62	10.08	7.00	13.50	3.15	7.44	3.95	3.36	5.64	14.91	2.23	7.29	5.13	5.26	-.45	3.80	4.71	25.21	14.58	8.42	7.98	127.14	17.41	
HONOLULU MAUKA 138	15.31	-.75	14.03	4.29	19.24	1.88	26.72	7.74	15.77	-.52	12.31	1.82	28.64	13.64	25.02	7.37	6.74	2.99	8.00	7.71	45.55	27.76	29.64	8.04	248.97	49.47	
HONOLULU 71	2.20	1.57	1.54	1.89	3.08	1.02	7.60	4.61	4.00	.63	3.00	1.10	5.20	1.13	2.80	.54	3.00	-.34	3.20	-.98	2.4	1.40	3.00	1.45	38.86	-.32	
HUALALEI 72	1.50	-.26	4.66	1.19	3.40	1.35	6.45	5.06	2.40	.54	1.30	-.11	2.60	1.09	.80	-.62	1.75	.00	2.76	1.82	1.10	.50	3.40	2.78	28.12	10.96	
HUEHUE 92A	2.77	1.36	4.59	1.88	4.05	.34	7.03	6.02	6.77	1.40	7.33	2.83	5.44	2.94	6.40	3.68	2.13	1.10	4.26	.67	2.05	.88	3.17	.81E	55.29	15.23	
KAALA IKI 12	1.70		7.85		8.85		6.01		7.16		7.79		3.87		10.48		3.03		6.12		17.40		10.56		90.82		
KAALAE 25	2.45	1.28	2.46	-.94	.50	.19	3.62	1.34	3.59	2.78	5.97	-.72	6.54	-.54	7.93	1.34	3.00	-.61	5.88	-.24	2.99	.59	3.30	.47	55.82	7.04	
KAINALIU 73B	1.84	-2.12	3.71	-.32	5.67	.39	5.30	.36	6.26	1.44	8.32	.37	10.68	2.13	10.89	3.20	6.92	-.68	3.50	2.70	4.93	.66	7.99	1.78	72.81	1.55	
KALAPANA NO 1 67.8													6.79		13.89		2.19		4.27		8.37		11.98		47.76		
KAMAGA NO 2 5	2.59		6.45		4.47		4.08		3.87		3.35		2.89		5.04		2.02		1.98		7.04		4.00		47.76		
KAMUELA 192.2	6.19	1.88	2.60	1.62	4.12	-.15	3.89	.00	2.80	.04	.76	-1.02	2.88	.24	1.17	1.91	.25	-1.05	3.29	1.00	4.43	1.76	6.51	1.82	38.89	.99	
KAMUELA AIRPORT	3.95		1.99		2.98		1.48		2.56		.64		1.10		.49		.15		2.57		2.18		4.76		26.18		
KAPAPALA RANCH 36	2.50	6.42	.82	6.71	10.33	2.99	14.98	9.88	8.97	4.96	5.34	3.24	5.19	3.04	9.52	5.14	2.19	1.90	4.65	.95	12.11	5.88	11.71	7.04	88.40	26.19	
KAPOHONO LANDING 935			6.24		16.3		29.20		6.77		5.89		11.28		8.98		6.37		8.22		9.38		13.22		22.92		
KAUMANA 88.1	10.92		11.49		15.44		30.28		14.10		10.23		26.73		27.56		5.83		6.79		33.39		30.16		222.92		
KAWAINUI LOWER 193	25.06	11.87	3.17	11.50	36.26	16.10	14.35	6.63	7.24	10.32	9.79	-.68	17.92	2.27	10.09	6.87	7.84	.11	4.87	6.36	10.33	1.11	12.82	5.59	159.73	18.67	
KEALA 92	8.76	3.80	8.59	4.84	11.86	3.72	24.43	12.01	11.55	1.67	7.66	-.20	7.41		9.01		5.65	3.21	7.50	4.88	27.03	8.10	17.64	1.45	161.82	18.50	
KEALAKUKUA 26.2	2.43		3.06		5.09		5.36		5.36		.88		7.41		9.15		6.57		6.22		2.98		3.57		62.14		
KEHENA 181.2	15.40	5.08	6.00	3.16	6.90	5.80	9.35	3.27	6.40	2.71	3.60	3.75	9.65	.10	5.06	4.13	2.75	2.12	4.72	1.43	17.20	8.91	9.27	3.67	97.20	15.95	
KEHENA RESERVOIR 176.1	10.51		7.61		5.67		9.37		3.49		2.76		6.32		4.02		1.42		4.09		12.29		7.55		72.20		
KILOAKAA A F 6	1.73	5.66	9.58	2.30	6.30	.25	5.80	.63	4.80	-.24	5.77	.59	5.52	.04	7.20	.63	4.78	1.14	3.12	2.13	14.45	7.87	8.70	4.23	77.75	7.37	
KIPA 89.2	11.52		10.27		18.08		19.35		11.23		31.56		27.44		7.40		8.75		7.40		36.60		28.66		245.43		
KOHALA 179A	7.49	2.72	10.57	6.09	7.35	1.53	5.21	.58	2.37	1.87	2.76	.63	5.90	1.35	4.46	.63	1.41	1.56	1.69	2.84	6.42	1.87	6.56	.11	62.19	5.56	
KOHALA MAULILI 176	8.85	1.92	5.28	1.68	8.36	-.42	6.29	3.20	3.35	3.48	2.15	.303	8.59	1.77	4.90	2.04	2.39	1.50	2.32	3.78	9.04	2.60	7.19	2.08	68.61	14.90	
KOHALA MISSION 175.1	7.48	2.02	6.89	1.75	10.08	.57	9.71	1.87	2.76	1.99	2.75	.93	7.55	2.35	4.56	1.13	1.52	1.42	1.76	2.80	7.43	2.41	7.32	.07	61.99	-.97	
KOHALE LOWER 196	12.97	4.06	1.96	8.38	18.31	5.48	8.69	4.61	4.52	5.78	6.90	.24	9.25	-.68	6.56	4.52	3.04	1.29	1.60	5.33	5.67	1.23	9.87	1.96	89.40	24.00	
KONA AIRPORT 68.3	7.71		1.24		1.57		1.68		3.05		1.80		3.39		1.22		2.18		1.32		1.42		1.04		22.61		
KUKAIUA 222	10.66	3.01	5.97	5.68	13.71	-.90	15.92	2.10	15.22	3.34	15.30	-.52	13.30	4.48	5.34		1.13	2.49	2.35	2.88	19.76	11.32	1.90		11.32	7.55	
KUKUIHALE HIC 199	9.45	3.42	3.51	3.80	8.75	1.29	8.48	.75	2.60	4.11	2.30	.74	6.46	.92	4.42	1.55	.48	2.31	2.26	3.68	14.00	7.34	5.04	1.48	69.85	8.83	
KUKUIHALE MILL 206	8.66	4.07	3.52	2.22	10.13	2.61	6.84	.45	2.19	2.24	1.89	-.16	4.27	.62	3.67	.57	.50	1.55	1.82	2.98	14.26						

TEMPERATURE EXTREMES

HAWAII
1967

Table 3

Station	Highest	Date	Lowest	Date	Station	Highest	Date	Lowest	Date
* * *					* * *				
ISLAND OF KAUAI					ISLAND OF MAUI				
KANALOHULUHULU 1075	80	8-20	39	3-15+	HALEAKALA RS 338	74	9-11+	32	1- 7
KILAUEA POINT 1133	90	10-14	57	2-18	HALEAKALA SUMMIT 338.4	69	12- 9+	20	1-11
LIHUE WB AIRPORT	88	5-17	56	12-29+	HANA AIRPORT	88	10- 2+	56	1- 7
MAKAHUEA POINT	91	10-30+	58	12-29+	KAHULUI WB AP	91	7-30+	55	12-28
MANA 1026	94	8-27	56	2-28+	KAILUA 446	84	7- 2	52	1- 6
NIU RIDGE 1035	92	9-13	53	1-10+	KULA SANATORIUM 267	80	12-18	46	12-27
WAIAMI LOWER 1054	85	10-29+	51	4-10	LAHAINA 361	93	9-29	53	2-21
					WAILUKU 392	-		56	12-29+
* * *					* * *				
ISLAND OF OAHU					ISLAND OF HAWAII				
EWA PLANTATION 741	93	9- 3	56	12-28	HAINA 214	89	7-21	52	1-12
HONOLULU WBAP 703	92	10- 3+	59	12-28+	HAWAII VOLCNS NP HQ 54	85	7-28	42	1-12+
HONOLULU SUBSTA 704	87	9-25	60	1-12	HILO WB AIRPORT	91	5-18	55	2-21
KAHUKU 912	87	5-18	56	12-27+	KAINALIU 73B	85	10-13	54	4-10+
KANEOHE MAUKA 781	87	10-22+	59	11-28	KAMUELA 192.2	85	9- 5	42	1-13+
MAKAPUU POINT 724	89	7-31	61	1- 5	KAMUELA AIRPORT	80	10- 9+	44	1- 7
OPAEULA 870	89	11-18+	55	3-16+	KEAAU 92	88	10-24+	55	2-21
PRI WAHIAWA 820.2	93	9- 4	52	12-29	KEALAKEKUA 26.2	85	8- 9	-	
WAIALUA 847	92	6-18	54	2-21	KOHALA MISSION 175.1	88	6- 4	58	1-13+
WAIKIKI 717.2	93	9- 4	56	12-28+	KONA AIRPORT 68.3	87	12-18+	60	4- 9+
* * *					KULANI CAMP 79	78	8-13	33	1-23
ISLAND OF MOLOKAI					MAUNA KEA BEACH	96	9- 2	52	2-19
MOLOKAI AP 524	90	7-23	56	12-28	MAUNA LOA SLOPE OBS	64	6-25	22	1-12+
					MOUNTAIN VIEW 91	85	8-25+	48	2-22
* * *					NAALEHU 14	85	10-14+	57	2-21
ISLAND OF LANAI					OOKALA 223	88	6- 9	56	1- 7
LANAI CITY 672	87	4-28+	56	12-13+	OPIHIHALE 2 24.1	89	12-15	52	1-11
					PAHALA 21	88	10-26	53	2-21
					UPOLU POINT USCG 159.2	88	10-31+	56	1- 7

TOTAL EVAPORATION AND WIND MOVEMENT

HAWAII
1967

Table 4

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
* * * ISLAND OF KAUAI														
LIHUE WB AIRPORT	EVAP	5.77	5.888	5.60	8.07	8.42	9.95	10.41	10.30	9.79	9.01	7.89	5.568	96.65
	WIND	3704	2813	2799	3204	3090	2846	4437	4826	3714	3374	4802	3527	43136
	MAX	79.5	83.3	81.7	86.3	89.0	92.8	91.1	90.5	91.5	89.6	81.8	78.7	86.3
	MIN	62.2	63.9	64.9	64.4	68.3	68.3	70.2	70.8	70.4	68.9	65.8	61.7	66.7
* * * ISLAND OF OAHU														
HONOLULU OBSERVATORY	EVAP	4.37	5.198	4.97	6.40	8.218	8.35	9.20	8.91	9.24	6.69	5.59	4.378	81.49
	WIND	1011	1004	962	907	989	945	1319	1140	1020	928	1285	1285	12795
	MAX	81.6	84.6	83.7	89.8	92.7	96.2	95.4	94.1	94.1	91.2	85.9	82.2	89.3
	MIN	62.6	64.0	65.2	65.3	69.1	71.6	73.0	73.0	71.9	71.3	68.0	66.2	68.4
* * * ISLAND OF HAWAII														
HILO WB AIRPORT	EVAP	5.028	4.828	4.338	5.338	6.518	6.66	5.608	6.588	6.01	5.338	4.168	4.728	65.07
	WIND	2557	2194	2162	2011	2364	2204	1931	1710	1860	1744	1747	2249	24733
	MAX	79.0	81.4	81.9	83.7	86.2	89.1	87.4	88.4	89.0	86.5	81.1	78.4	84.3
	MIN	61.7	63.8	65.2	64.6	67.4	68.0	69.7	68.5	67.9	67.5	66.5	63.6	66.2

RELOCATION AND CHANGES OF EQUIPMENT

NAME

DATE - 1967

ISLAND OF KAUAI

EAST LAWA 934
KUKUIULA 935

EQUIPMENT MOVED 300 FEET N
EQUIPMENT MOVED 90 FEET S

OCTOBER 1966
FEBRUARY

ISLAND OF OAHU

CHURCH COLLEGE LAIE
KAWAIIHAPAI
WAIALAE-KAHALA 715

EQUIPMENT MOVED 400 FEET S
EQUIPMENT MOVED .6 MILE ESE
EQUIPMENT MOVED 110 FEET E

JUNE 28
JUNE 14
JULY 3

ISLAND OF MAUI

LAHAINA 361

EQUIPMENT MOVED 75 FEET NW

JULY 12

ISLAND OF HAWAII

HAWI 168
NAPOOPOO
PAPAIIKOU MAUKA
POHAKULOA 107

EQUIPMENT MOVED 100 FEET S
EQUIPMENT MOVED 80 FEET W
EQUIPMENT MOVED .75 MILE ESE
EQUIPMENT MOVED 280 FEET SE

MAY 15
NOVEMBER 1966
DECEMBER 5, 1966
APRIL 12

HAWAII
1967159

STATION INDEX

HAWAII
1967

CONTINUED

CONTINUED																											
Station	Index No.	Division No.	DISTRICT	Drainage†	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables	Station	Index No.	Division No.	DISTRICT	Drainage†	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables
								Temp.	Precip.	Evap.	Month opened	Month closed										Temp.	Precip.	Evap.	Month opened	Month closed	
ISLAND OF HAWAII														ISLAND OF HAWAII													
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	30	67				1 2 3	PUU KIME 120	A 8393	01	HAKAUA	1	19 54	155 24	7750		53			2	
NAU 151	A 6588	03	KAU	3	19 04	155 35	673	13	78				1 2 3	PUU LAU 102.1	A 8452	05	HAKAUA	5	19 50	155 36	7440		35			2	
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		27				2	PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4850		44			2	
NAULI FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1409		3				2	PUU MALI 113	A 8515	01	HAKAUA	1	19 55	155 26	6960		35			2	
NIULII 179	A 6806	01	N KOHALA	1	20 14	155 45	75		82				1 2 3	PUUKUMAU 167	8548	01	N KOHALA	1	20 12	155 50	1800		40			2	
OKALA 223	7131	02	N HILO	2	20 01	155 17	430		77				1 2 3	PUU OO 82	8550	02	S HILO	2	19 44	155 23	6340		2			2	
OPHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	10	11				2	PUU WAAMAA 94.1	8555	05	N KONA	5	19 47	155 51	2520		64			2 C	
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		5				1 2 3	SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		19			2	
PAAHU 217	7204	01	HAKAUA	1	20 05	155 26	415		76				2	SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	400		19			2	
PAHULO 221	7312	01	HAKAUA	1	20 03	155 22	809		65				2	S POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	305					C	
PAMALA 21	7421	03	KAU	3	19 12	155 29	870	58	76				1 2 3	UMIKOA 118	8780	01	HAKAUA	1	19 59	155 23	3420		74			2	
PAMPA 65	7457	02	PUNA	2	19 30	154 57	670		56				2	UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	1	9	11			1 2 3	
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		39				2	WAIAREA SCD 88.2	9025	02	S HILO	2	19 40	155 08	1050		15			2	
PAPAIOU 144A	7711	02	S HILO	2	19 47	155 06	200		69				2	WAIKANOHUOLA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830					C	
PAPAIOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		42				2														
PEPEKEO MAUKA 144	8000	02	S HILO	2	19 51	155 05	100		77				2														
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		42				2														
POHAKULOA 107	8063	02	HAKAUA	2	19 45	155 32	6511		30				2 C														
PUAKO 95A	8186	05	KOHALA	5	19 59	155 50	5		5				2														
PUU KAPU 192.1	A 8385	01	S KOHALA	1	20 02	155 39	2870		35				JUN 2														

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3896, Honolulu, Hawaii 96811, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min in Evaporation and Wind table refer to extremes of temperature of water in pan as recorded during 24 hours ending at time of observation.

NORMALS for all stations are climatological normals based on the period 1931-1960. "DEP" in Table 4 refers to departures from long-term means based on periods varying from 10 to 29 years which are used in place of normals.

STATION NAMES: Figures and letters following the station name, such as 181.1, are Pineapple Research Institute gage numbers.

DELAYED DATA AND CORRECTIONS will be carried in the June and December issues of Climatological Data.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record.
- + Also on earlier date (dates) or months.
- * Amount included in following measurement.
- A The letter "A" shown following station name, (Table 2 and Station Index): Amount carried in the monthly "Precipitation" column are for the period from last measurement of a preceding month through the last measurement of the current month. See Daily Precipitation Table of the monthly Climatological Data for the date of measurement. Measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- E Amount is wholly or partially estimated.
- M One or more days record missing, if average value is entered, less than 10 days record is missing. See monthly Climatological Data for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month. V in annual column means total is for a two-year period.

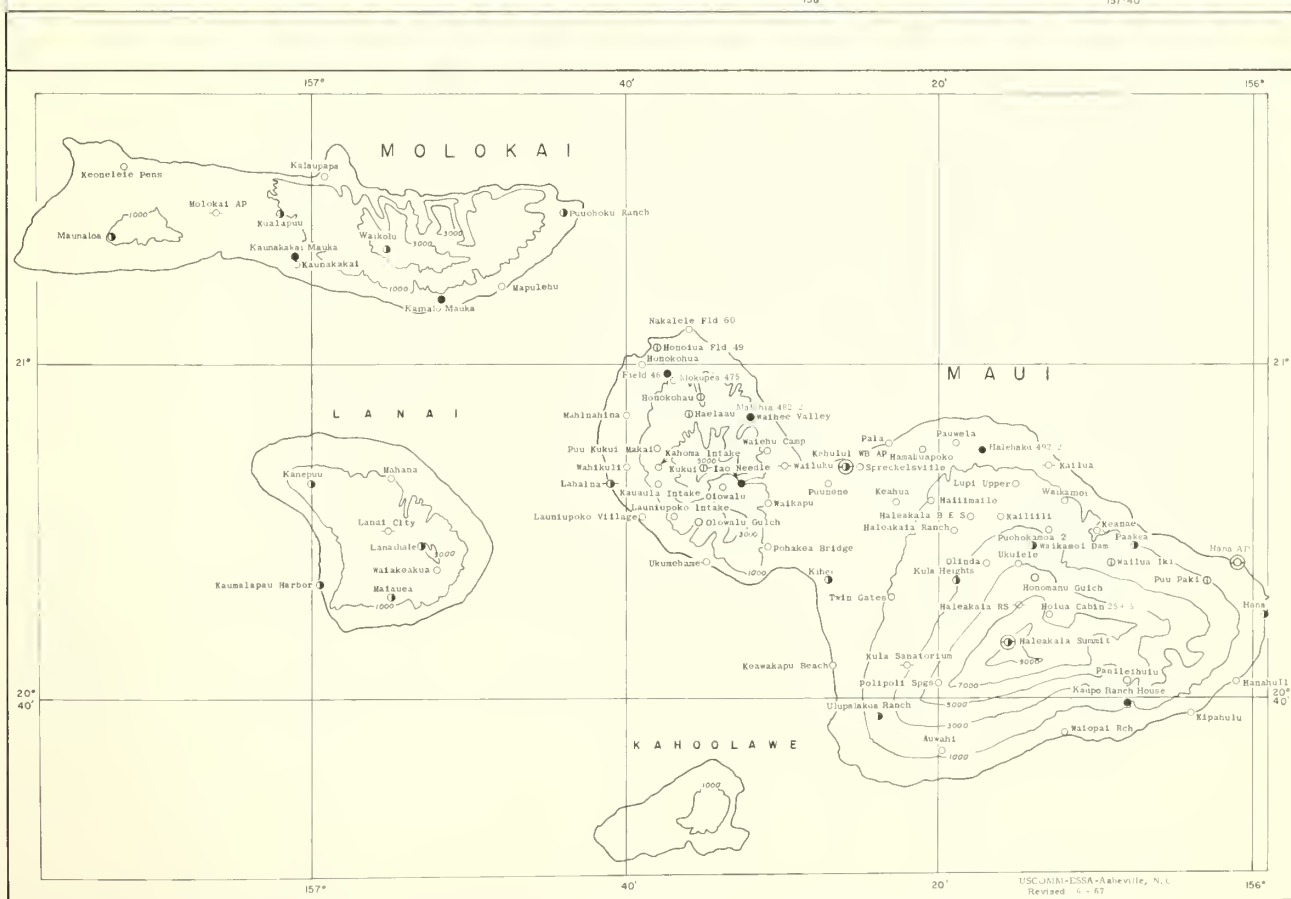
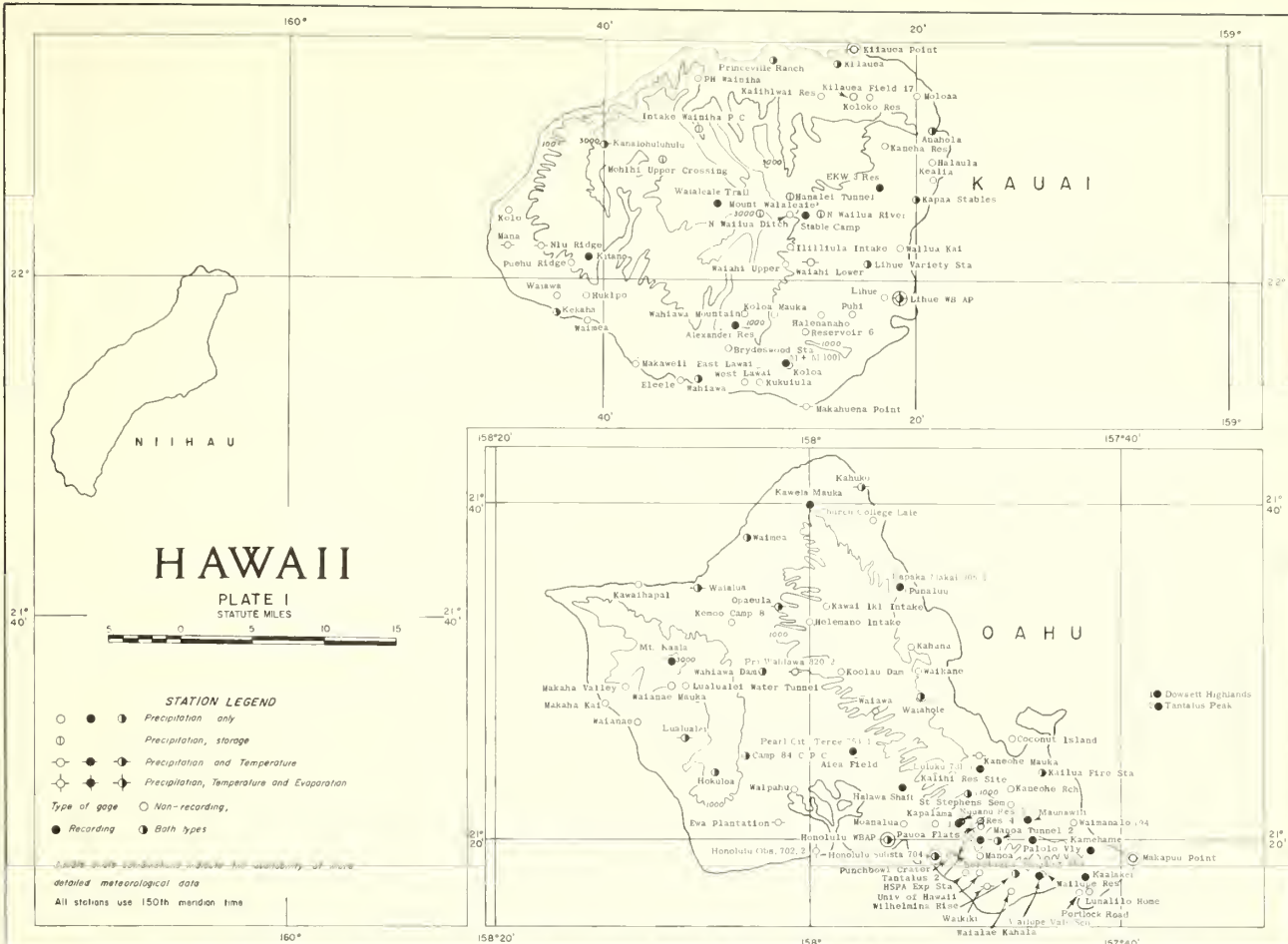
IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

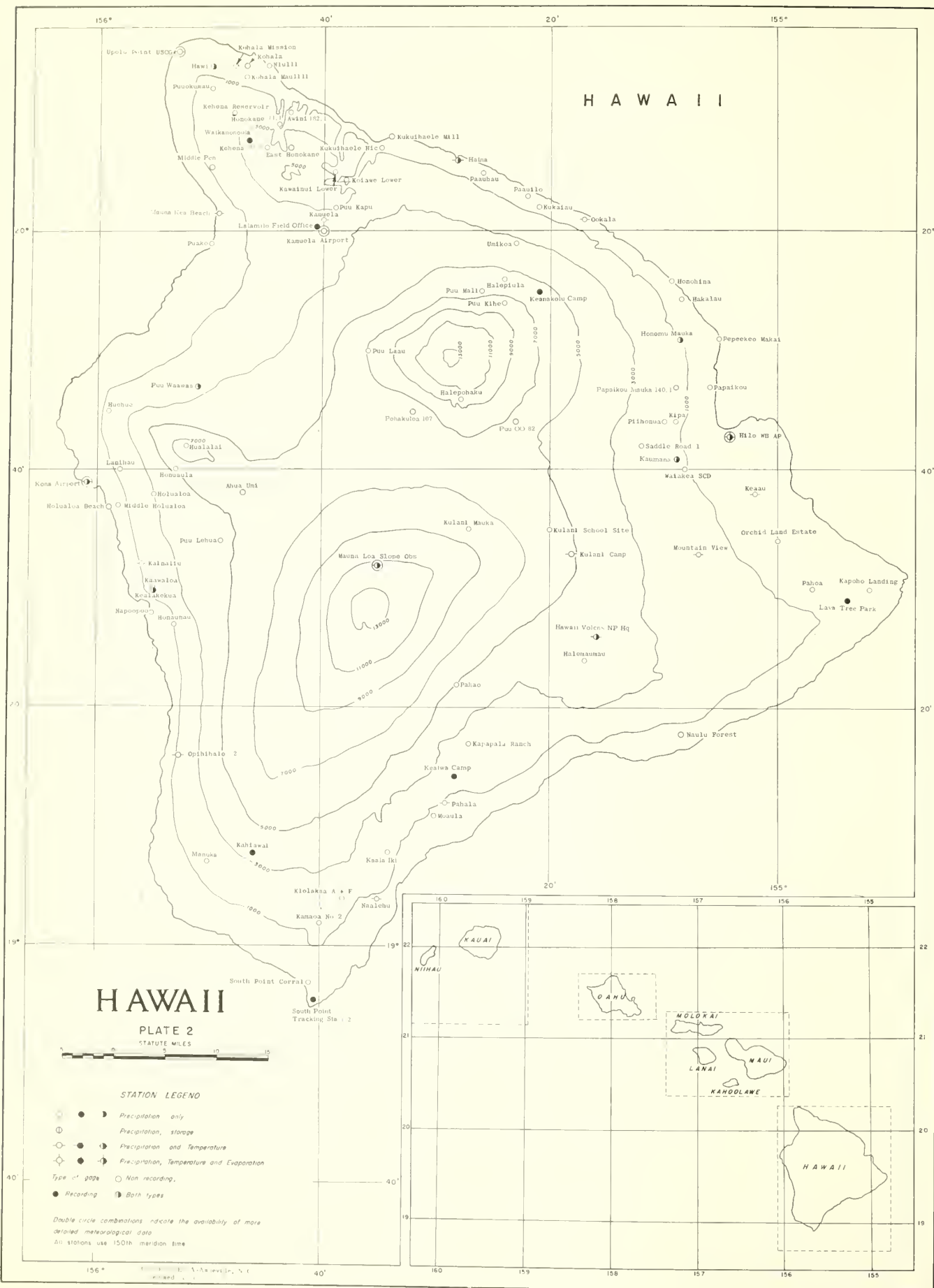
- # Thermometers are generally exposed in a shelter located a few feet above and covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
 - C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
 - S Storage precipitation station. Precipitation measurements, made at irregular intervals, will be published in the December issue of Climatological Data.
- Years of record as shown in the Station Index are approximate since gaps in the records may not have been considered in arriving at the totals shown.
- The four-digit identification numbers in the Index are assigned on an island basis. There will be no duplication of numbers within an island.

Information concerning the history of changes in location, elevations, exposures, etc., of substations through 1957 may be found in the publication "Substation History" for this State. That publication may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402, for 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, obtained as indicated above, price 15 cents.

Subscription Price: 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittances and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMN-ESSA-ASHEVILLE-5/21/68-990







CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
C. R. SMITH, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

JANUARY 1968

Volume 64 No. 1

MAY 12 1968

CLIMATOLOGICAL DATA

Station		Temperature								Precipitation				Snow, Sleet				No. of Days								
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Total	Max Depth on Ground	Date	10 or More	50 or More	1.00 or More			
										Max. Min.																
										80° or Above	32° or Below	32° or Below	32° or Below													
ISLAND OF KAUAI																										
ANAHOLA 1111		A												7.44	.72	2.70	16	.0	0							
KANALOHULUHULU 1075		A	63.4	50.6	57.0		66	14	39	9			0	0	0	0	11.62		3.25	16	.0	0		13	7	3
KAPAA STABLES 1104		A												7.75		2.14	16	.0	0							
KILAUEA FIFLO 17 1135		A	79.6M	65.7M	72.7M		88	21	58	26			0	0	0	0	9.82	- .27	2.16	27	.0	0		10	3	3
KILAUEA POINT 1133														6.53				.0	0							
KOLOA 936		A												10.39	3.48	2.50	16	.0	0							
LIHUE WB AIRPORT		R	76.4	62.6	69.5	- 1.4	81	20	56	12			0	0	0	0	7.43	1.92	2.43	16	.0	0		6	4	3
MANA 1026			78.9	62.7	70.8	- .3	82	22	57	24			0	0	0	0	5.01	.95	1.88	16	.0	0		5	3	3
N WAILUA DITCH 1051														19.10				.0	0							
PH WAINIHA 1115														9.96	- .27	1.66	28	.0	0				12	8	4	
PUEHU RIDGE 1040														5.61		2.70	28	.0	0				6	2	2	
WAIHAWA 930		A												9.73	4.70			.0	0							
WAIHAI LOWER 1054			77.3	58.5	67.9		81	21	50	12			0	0	0	0	9.30		1.97	16	.0	0		10	7	4
WAIHEA 947														4.40	.72	1.75	16	.0	0				5	3	2	
ISLAND					67.6									8.86				.0	0							
ISLAND OF OAHU																										
HONOLULU ORSERV 702.2														10.71		4.65	27	.0	0				9	3	2	
HONOLULU WRAP 703		R	80.0	66.0	73.0	.5	83	22	59	10			0	0	0	0	8.17	4.41	3.21	16	.0	0		8	3	2
KAHUKU 912		M		62.4M									0	0	0	0	7.88	2.74	2.81	17	.0	0				
KANEHE MAUKA 781			76.5	66.3	71.4	- .1	81	27	61	29			0	0	0	0	11.10	3.80	3.22	17	.0	0		12	4	4
KOOLAU DAM 833														14.44	6.65			.0	0							
LUALUALEI 804														6.51		3.50	17	.0	0				8	2	2	
MAKAPUU POINT 724			75.3	67.3	71.3		78	26	63	31			0	0	0	0	7.39	3.80	3.17	17	.0	0		8	4	1
NUUANU RES 4 783														11.32	.51	3.98	4	.0	0				9	5	3	
OPAEULA 870		M											0	0	0	0	13.10	6.37			.0	0				
PALOLO VALLEY 718														11.20	.28	3.16	4	.0	0				11	5	3	
PRI WAIHAWA R20.2			78.2	60.3	69.3		82	27	54	25			0	0	0	0	13.40		5.65	5	.0	0				
PUNALUU 884														10.68				.0	0							
WAIHAWA DAM 863														13.51	1.12	3.65	17	.0	0							
WAIHOLE 837		A												8.52	4.42	3.20	5	.0	0				9	6	2	
WAILUA 847			78.6	61.6	70.1	- .4	86	22	56	26			0	0	0	0					.0	0				
WAIKIKI 717.2			81.2	64.2	72.7		85	16	56	31			0	0	0	0	6.03		2.32	27	.0	0		7	3	2
WAIPIHU 750		A												9.79	5.63	3.44	5	.0	0							
ISLAND					71.3									10.23				.0	0							
ISLAND OF MOLOKAI																										
KUALAPUU 534		A												8.55	4.41	3.10	17	.0	0							
MAPULEHU 542														10.90	7.04	3.13	16	.0	0				8	5	5	
MAUNALO A 511														6.73	2.46	2.82	17	.0	0							
MOLOKAI AP 524			76.7M	65.5M	71.1M		81	29	58	9			0	0	0	0			3.95	17	.0	0				
ISLAND					71.1									8.73				.0	0							
ISLAND OF LANAI																										
LANAI CITY 672			74.0M	61.2M	67.6M	2.0	79	23	56	31			0	0	0	0	7.29	2.67	1.95	28	.0	0		12	4	4
ISLAND					67.6									7.29				.0	0							
ISLAND OF MAUI																										
HALFAKALA R E S 434		A	59.4	42.6	51.0		68	22	36	15			0	0	0	0	4.52	- 2.88	1.07	28	.0	0		9	4	1
HALEAKALA RS 338														8.28		2.38	17	.0	0				7	6	4	
HANA AIRPORT		A	78.8	64.6	71.7		84	23	57	13			0	0	0	0	11.24		3.90	5	.0	0		10	4	3
HONOKOHU 493														6.89	2.83	2.05	17	.0	0							
KAHULUI WB AP		R	77.8	63.8	70.8	- 1.3	83	15	55	10			0	0	0	0	4.31	1.17	1.20	27	.0	0		8	4	1
KAILUA 446			78.4	59.1	68.8	.4	82	30	55	13			0	0	0	0	9.65	1.11	4.40	5	.0	0		10	6	2
KEANAE 346		A												16.30	1.07			.0	0							
KIPAHULU 258														12.17	2.23	3.82	17	.0	0				10	6	4	
KULA SANATORIUM 267			69.4	55.0	62.2	.8	78	22	47	10			0	0	0	0	6.81	2.19	3.10	17	.0	0		5	2	2
LAHAINA 361			79.9	64.8	72.4		84	1	60	30			0	0	0	0	4.20	1.41	1.44	28	.0	0		4	3	2
PAIA 406														5.92	2.05	1.85	28	.0	0				9	5	1	
WAILUKU 392			79.8	61.3	70.6	- 1.1	85	16	54	10			0	0	0	0	5.99	2.20	1.63	17	.0	0		8	4	3
ISLAND					66.8									8.02				.0	0							

CLIMATOLOGICAL DATA

HAWAII
JANUARY 1968

CONTINUED

Station	Temperature										Precipitation													
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date		No. of Days					Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.							Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										90° or Above	32° or Below	32° or Below	0° or Below											
ISLAND OF HAWAII																								
HAINA 214	77.2	61.3	69.3		81	21+	56	11		0	0	0	0	3.37	- 1.69	1.05	4	.0	0		7	2	1	
HAWAII VOLCNS NP HO 54	65.6M	49.8M	57.7M	- .4	71	22	44	30		0	0	0	0	15.23	3.01	3.30	28	.0	0		16	8	6	
HILO WB AIRPORT	80.6	65.2	72.9	2.1	87	21	60	9+		0	0	0	0	4.77	- 7.05	1.14	4	.0	0		9	4	1	
HUEHUE 924														6.20	2.07			.0	0					
KAINALIU 73B	76.4	60.0	68.2		80	19	54	30+		0	0	0	0	5.96	2.00	1.91	26	.0	0		7	4	3	
KAMUELA AIRPORT	70.9	50.9	60.9		76	21	41	31		0	0	0	0	3.39		.88	18	.0	0		6	3	0	
KEAAU 92	80.9	62.1	71.5	1.2	85	22+	58	12+		0	0	0	0	7.66	- 4.90	2.08	5	.0	0		11	5	2	
KEALAKEKUA 26.2	77.0	60.9	69.0		80	23+	54	13		0	0	0	0	5.75		2.04	19	.0	0		8	4	3	
KEHENA RESERVOIR 176.1														9.35		2.84	18	.0	0					
KONA AIRPORT 68.3	82.0	64.4	73.2		85	23+	61	31+		0	0	0	0	3.87		1.98	19	.0	0		7	2	1	
KUKUIHAELE MIC 199														5.94	- .19	2.25	28	.0	0		11	3	1	
KULANI CAMP 79	64.0M	43.4M	53.7M		75	22	35	10		0	0	0	0	6.73		1.06	19	.0	0					
MAUNA KEA BEACH	83.0	66.3	74.7		87	20+	61	30+		0	0	0	0	4.68		2.16	26	.0	0		5	3	1	
PAHALA 21	76.8	61.0	68.9	- .1	80	22+	56	13		0	0	0	0	17.24	9.21	7.80	28	.0	0		11	5	5	
POHAKULOA 107														3.63				.0	0					
PUAKO 95A														4.05		1.49	26	.0	0		4	3	3	
PUU WAAWAA 94.1														3.19	- .04	1.43	26	.0	0					
UMIKOA 118														4.81	- 2.35	1.49	3	.0	0					
WAIKOLE SCO 88.2														7.04		1.82	5	.0	0		10	6	2	
ISLAND			67.3											6.46				.0						

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 88° ON THE 21+ AT KILAUEA POINT 1133, KAUAI

LOWEST TEMPERATURE: 25° ON THE 29TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 21.21 INCHES AT NAULA FOREST 38.6, HAWAII

LEAST TOTAL PRECIPITATION: 1.61 INCHES AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST ONE-DAY PRECIPITATION: 9.55 INCHES ON THE 230 AT WAIKOLU 540, MOLOKAI

SPECIAL WEATHER SUMMARY

The most severe weather event of the month occurred during the early morning of the 5th, when torrential rains and flash flooding did an estimated \$1.2 million of damage to the Pearl City-Waiawa area of Oahu. The rains, associated with deep and nearly stationary low pressure areas in the upper atmosphere and at the surface over the islands, were extremely intense at times, and heaviest in the mountains behind Pearl City-Waiawa, where at least 9 inches fell within several hours.

Flood waters, overwhelming Waimanu and Waiawa Streams, raged through the Waimalu Elementary School and the Pearl City Shopping Center, leaving water marks more than 6-feet high on the inside walls of one supermarket. Several houses in the Pearl City Highlands were damaged and several others, as well as field crops and banana trees, were destroyed on the upslope side of Kamehameha Highway by the flooding Waiawa Stream.

The severity of the flood was increased when a car and several large tree limbs blocked a culvert in Waimanu Stream.

Although no human lives were lost, scores of dogs, cats, goats, and cows were swept to their deaths and buried beneath tons of mud.

The worst flooding occurred between 2:00 and 4:00 a.m. A recording rain gage at Pearl City Terrace, between the Koolau Mountains and Pearl City, reported about 2 inches of rain from 2:15 to 2:30 a.m., 3-1/2 inches between 2:15 and 3:00 a.m., and nearly 7 inches in a 7-hour period. The Small Business Administration declared the flood-site a disaster area.

On the 16th, a surface cold front and an upper atmospheric low to the west of it brought strong southwesterly winds, thunderstorms, heavy rain and light hail to the island chain. At 8:15 a.m., severe turbulence injured 3 persons, one seriously, aboard a military aircraft west of Honolulu, 30 minutes before landing time.

A band of severe thunderstorms and strong winds struck Oahu near noon, causing jet aircraft to be diverted to Hilo Airport, Hawaii. The heavy showers were accompanied by winds gusting to over 50 m.p.h. and by frequent lightning in some areas. Lightning slightly damaged a house in Alea and another in Kailua, Oahu, and knocked 3 TV stations off the air. Numerous power failures were reported.

At about 11:25 a.m. strong local winds extensively damaged two warehouses in Honolulu's Kapalama district, stripping away large sections of corrugated tin roofing, while leaving untouched a pile of light wooden supports several hundred yards

away. At Honolulu International Airport, over 1/2 inch of rain fell in 5 minutes and 1.85 inches in 30 minutes.

What may have been the same squall line reached Molokai at about 2:30 p.m., dumping approximately 2-3/4 inches of rain in 50 minutes on Kaunakakai and 2-1/4 inches in 40 minutes on Kualapuu.

Brief falls of small hail (1/8-inch or less in diameter) were reported at Kealahou and at Papaikou on Hawaii Island at about 1:08 p.m. Lihue Airport, Kauai, registered a gust of 55 m.p.h. from the south at 7:41 p.m. during a heavy thunderstorm, and a garage was overturned by strong winds at Kapaki, Kauai, at about the same time. Kahului, Maui, reported a gust of 53 m.p.h. from the southwest just after midnight on the 17th.

Several other weather events of interest occurred during the month.

On the 13th a funnel cloud was reported over Maalaea Bay, Maui, "moving from cloud to cloud" toward the West Maui Mountains.

On the 22d and 23d, heavy surf from the southwest crashed onto the coast of western Hawaii, sweeping into several houses and beaching some small boats in the Puako-Kawaihae area during the morning of the 23d.

On the early morning of the 27th, thunderstorms dropped 2 to 4 inches of rain over Oahu, flooding several streets in Honolulu and covering two others in the Honolulu Airport area with mud. Heavy rain was also reported on Kauai, Molokai, and Maui.

An outbreak of funnel clouds occurred on Oahu on the 28th. Just after 9:00 a.m., three waterspouts, associated with heavy rain showers, were reported off Maili Point in western Oahu within a period of several minutes. The largest of the three was described as roiling the sea surface about 1/4 mile offshore. At 10:05 a.m., funnel clouds were reported west of the Airport. Another waterspout was sighted off Waikiki Beach at about 11:00 a.m., and still another 5 miles southeast of the Honolulu Airport.

The month's stormy weather marked a continuation, begun in December, of the replacement of the trades by southwesterly winds, strong at times, and associated with storm tracks displaced so far south of their seasonal course that even the subtropical high pressure centers were often at or below Hawaii's latitude.

Although the several periods of heavy rains produced monthly totals up to twice normal in

HAWAII - JANUARY 1968

SPECIAL WEATHER - CONTINUED

many parts of the State, a few gages on Kauai and in east windward Maui had less than their monthly means. In the Hilo-Hamakua area,

Saul Price
Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

virtually all stations were well below normal for the month, and a few less than 50 percent of normal.

Russell Dorr
Acting Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
JANUARY 1968

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																		
ANAHOLA 1111	A	7.44	*	1.32	.20	.01	.16	*	*	.62			.02	*	*	.27	2.70	.53		*	*	.05	.06				*	*	1.50		*	*		
BYESWOOD STA 985	A	10.68	*	*	1.67	*	.04	.10	*	.25	.01			*	.10	.02	2.05	1.19	.09	T	*	*	1.44	.86	.01		*	*	2.95	T	*	*		
EAST LAWA 934	A	10.29	*	*	1.59	.06	.48	*	*	.86	T			*	*	.02	2.12	1.70	.09	T	*	*	.73	.47			*	*	2.19		*	*		
FLEEE 927	A	9.56	*	*	.81	T	.04	*	*	.06	T			*	*	.04	2.45	1.20	.05		*	*	1.15	1.00	.02		*	*	2.73	.01	*	*		
HAULA 1110	A	6.67	*	1.11	.18	.21	*	*	*	.38	.01			*	*	.01	2.61	.38			*	*	.14	.04			*	*	1.60		*	*		
HALENAHO 1006	A	11.06	*	2.16	.40	.05	.34	*	*	1.08							1.48	1.09	.02		*	*	1.70	.37			*	*	2.37		*	*		
HUKIPO 945	A	5.59	.43			.03	.37	*	*								1.79	.28	.33				.30					2.46						
ILILILUA INTAKE 1050	A	16.89	.40	.23	.75	.12	.90	2.40	.16					*	*	*	1.78	1.37	.10		.10	.36	1.30	.30			4.42	2.00			2.0	*		
INTAKE WAINIHA PC 1086	A	8.45	*	*	*	.04	.98	*	*	.72	*			*	*	*	2.31	.48	.06		.95	*	1.23	*		*	.20	*	1.90	*	*	*	*	
KALIHUAI RES 1131	A	10.57	*	*	2.00	.13	1.39	*	*	2.20				*	*	.56	1.13	.41				.03	.04					2.50	.08			*	*	
KANALOHULULU 1075	A	11.62	*	.10	.03	.02	.06	.76			.04	.44	.03	.63			3.25	.53	.31		.02	.25					1.57	2.13			.09	.29	*	
KANEHA RESERVOIR 1092	A	8.82	*	1.81	.52	.03	.37	*	*	1.05				*	.06		1.38	.91			*	*	.07	.11			*	*	2.48			*	*	
KAPAA STABLES 1104	A	7.75	*	.91	.36	.06	.12	*	*	1.05				*	*	.01	2.24	.46			*	*	.53	.06			*	*	1.80			*	*	
KEALIA 1112	A	6.88	*	1.07	.21	.13	*	*	*	.67				*	*	.01	2.24	.46			*	*	.53	.06			.07	1.71	.78				*	
KEKAHA 944	A	5.65				.02	.10				.03			.16			2.16	.32	.24		.02		.04										*	
KILAUEA 1134	A	7.71	*	*	1.34	.27	*	*	*	1.45				*	.16		.94	.52			*	*	.06	.08			*	*	2.78	.03	*	*		
KILAUEA FIELD 17 1135	A	9.82	*	1.81		.06	.62	*	*	1.49	.01			*	.37		1.87	.41	.01		*	*	.02	.06		.01	*	*	2.96	.04			*	
KILAUEA POINT 1133	A	6.53	.12	.32		.06	.10	.10		.02	.10		.08	*	*	1.00	.40					.06	.09				1.66	2.16			2.6	*		
KOLO 1033	A	4.84				.02								*	*	.56	1.13	.41														*		
KOLOA 936	A	10.39	*	1.75	.25	.05	.70	*	*	.50							1.97	.15	.21		*	*	.52	.25				1.33	1.12			2.20	*	
KOLOA MAUKA 994	A	12.54	*	2.43	.63	.03	.36	*	*	1.30				*	*		2.21	.86	.05		*	*	1.98	.43			*	*	2.26			*	*	
KOLOKO RES 1137	A	8.51	*	*	1.57	.03	.8	*	*	1.64			.10	*	*	.67	2.20	.40			*	*	.31	.19			*	*	2.74	.05	*	*		
KUKULUA 935	A	8.11	*	*	1.09	.04	.48	*	*	.06				*	*		2.31	1.48	.06		*	*	.31	.16			*	*	2.12			*	*	
LIHUE VARIETY STA	A	8.82	.02	.07	.21	.07	.50	.95		.01				*	*		1.96	.67	.02		.01	*	1.96	.21	.01		1.35	.80				*		
LIHUE 1020	A	8.93	*	1.36	.16	.28	*	*	*	.74				*	*		2.00	.92	.04		*	*	1.10	.33	.01				1.99			*	*	
LIHUE WB AIRPORT	R	7.43	.02	.06	T	.01	.95	T						*	T	2.43	T	T		.02	.49	1.22	.14			.03	2.03	.03			*	*		
MAKAHUEA POINT	A	5.56	.02	.14		.02	.19	.06						.01		1.67	.66	.02				.55	.07				.90	1.25			*	*		
MAKAWELI 965	A	7.36	.07			.03	.03						.04			2.50	.95	.06			.59	.84				1.06	1.19					*		
MANA 1026	A	5.01				.03										.01	1.88	.15	.14				.07	.01		.01	1.63	1.00	.05			*		
MOHIMI UPR CROSS 1083	A	10.65	.25			.75					.25	.03	.17			1.83	1.75	.33			.26	1.29	.60	.26			2.57				2.6	*		
MOLOAA 1145	A	5.87	*	1.61	.24	.03	.13	*	*	.38				*	.14	1.29	.32						.45				*	*	1.25			*	*	
NIU RIDGE 1035	A	5.60				.25								*	.07		1.97	.26					.10					3.20				*		
N WAILUA DITCH 1051	A	19.11	*	2.54	.76	.24	.89	*	*	1.78				*	.02		2.04	.12				1.52	.30			.01	T	.87	1.66	.01	.05	*	*	
PH WAINIHA 1115	A	9.96	.50	.22	.42	.07	.76	1.00	.04	T	.12			.30			1.58	1.58	T		.02		.02	.66	.08							*		
PRINCEVILLE RANCH 1117	A	7.87	.26	.06	.23	.02	.94	1.81		.11				.07			.59	.88					.27				1.58	1.05					*	
PUEHU RIDGE 1040	A	5.61				.03	.12									.03	1.85	.30	.40		*	*	.06	.12				2.70				*		
PUMI 1013	A	9.27	*	1.50	.22	.02	.27	*	*	.63	.02						2.24	1.08	.03		*	*	.91	.26			*	*	2.09			*	*	
RESERVOIR 6 1004	A	11.53	*	2.06	.38	.02	.31	*	*	1.37				*	*		2.04	1.06	.06		*	*	1.58	.44			*	*	2.21			*	*	
WAILAWA 930	A	9.73	*	.76		.02	.14	*	*	.08			T	*	*	.01	2.39	1.23	.03		*	*	1.38	.77	T		*	*	2.92	T		9.38	*	
WAILAWA MOUNTAIN 990	A	9.38	*											*	*						*	*					*	*					*	
WAILAHI LOWER 1054	A	9.30	.25	.09	.42	.02	.62	1.45	.03								1.97	.81	.02		.02	.02	1.21	.20			1.25	.90			.02	*		
WAILAHI UPPER 1052	A	11.59	.19	.05	.58	.21	.84	1.53								.21	2.10	1.48	.02		.15	.13	1.18	.23			1.20	1.70				*		
WAILAHI 912	A	8.57	*	.42		.04	.21		*								1.65	.23	.16		*	*	1.60	.16			.16		2.66			*	*	
WAILUA KAI 1065	A	9.35	*	1.25	.03	.36	*	*	1.30								2.00	.95	.10		*	*	1.60	.16			*	*	1.70			*	*	
WALMEA 947	A	4.40		.02	.01	.03	.04							.05			1.75	.46	.10		*	*	T	.09			.80	1.05	T			*	*	
WEST LAWA 931	A	8.36	*	*	1.27	.03	.31	*	*	.07							1.82	1.48	.09		*	*	.61	.36			*	*	2.32			*	*	
ISLAND OF OAHU																																		
AIEA FIELD 625 761	A	13.96	T	.12	T	8.10	.03									.02	2.50	.04	.26			.07	.02	.22				2.73			*	*		
BERETANIA PUMPING STA	A	7.93	.27	.25	.28								.07	.06			.02	2.70	.13	.12	.34	T	.10	.30			2.26	1.70	.01		*	*		
CAMP 84 807	A	10.49	.47	.04	.04	.04	.75	.07					.03	.30	.02		2.04	.12				.13	.10	.20				3.65			*	*		
CHURCH COLLEGE LAIE	A	8.57				.07	1.31	.26	.01					.30	.03	.19	.18	2.21	.16	.41		.15	.02	.13			2.00	.38	.33		.06	*		
COCONUT ISLAND 840.1	A	8.04	.04	.16													.18	2.21	.16	.41		.15	.02	.13			2.00	.38	.33		.06	*		
EWA PLANTATION 741	A	9.34	*	.14		1.57	.01						.11			.58	3.60	.04	.25	.05	.11	.03	.19				2.65	.61	.03		*	*		
HELEMANO INTAKE 881	A	12.57	*	*	*	*	*		7.00	*	.29	*				.31					2.05	*	.40			.50	*	*	1.75	*	*	*	*	

DAILY PRECIPITATION

HAWAII
JANUARY 1968

Continued

Station		Total	Day of Month																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF MOLOKAI																																			
KALAUAPPA 563		10.67	0.04			1.49				0.46							2.00	1.20		0.51	2.59					0.87				0.22				0.27	
KALAUAPPA 536	A	9.16				1.18				0.32							3.61			0.13				2.54		0.09						0.92		0.11	
KEONIFLE PENS 551	A	7.22				0.63				0.67										3.28												1.43			
KALAUAPU 534	A	8.55		0.15												0.08				0.49				2.02		0.30						1.47	0.05	0.06	
KAPULEHU 542	A	10.90		0.15	0.15	2.73	1.31						0.20				3.13		0.10	0.07	1.57				0.04		0.30			1.50	0.05				
MAUNALO 511	A	6.73			0.13	0.01		0.35			0.72			0.02					2.82		0.32			0.48		0.37						1.34		0.08	
MOLOKAI AP 524	A			0.15	T			0.06	1.50					0.06					3.95		0.20		0.86		0.36					0.08		1.12	T	0.07	
PUUOHOKU RANCH 542.1	A	11.27				0.63		1.23									0.40		3.30		0.80							0.20	1.32		0.23		2.30	0.03	
WAIKOLU 540	A	16.90		2.25					2.39							0.41								9.55											
ISLAND OF LANAI																																			
KANEPUU 690	A	6.82				0.15						0.71							2.21								1.72							2.03	
KAUMALAPU HARBOR 658	A	4.48		0.07			0.02												1.85		0.16			0.67					0.11			1.48			
LANAI CITY 672	A	7.29	0.01	T	0.01		1.10	0.18	T			0.10	0.03		0.17	0.05			1.83	0.12	0.10	1.17	0.10	0.01	T	0.14				1.95	0.22				
LANAI LAKE 684	A	4.43				0.13							0.79							0.86													1.67		
MAHANA 694	A	6.78																															6.78		
HALAUFA 676	A	6.37				0.17							0.06							3.14							1.24						1.76		
WAIKAKUA 685	A	7.51	0.20						0.61								0.18		2.65						1.95							1.87		0.05	
ISLAND OF MAUI																																			
AUWAHI-252	A	9.15																	4.60				2.35									2.20			
HALEKALA B F 5 434	A	4.52	0.13	0.03	0.28	0.94	0.71	0.15	0.05	0.02						0.07		0.57	0.07	0.15	0.10				0.08		0.07				1.07		0.04		
HALEKALA RANCH 432	A	4.05			0.22	0.32	0.76	0.08											0.70	0.24	0.14										1.44		0.08		
HALEKALA RS 338	A	8.28		T	0.21	0.72	1.24	0.04	0.01	T			T					2.38	T	1.08	0.60	0.02							0.02	0.04		1.88	0.04		
HALEKALA SUMMIT 338.4	A																																		
HAIKALE 423	A	3.99				0.14	0.61	0.21			0.50		0.06			0.07		0.21	0.25	0.53			0.14		0.12		0.03				1.08		0.04		
HAKAPUPOKO 485	A	7.50	0.25	0.05	0.04	0.55	2.64	0.88	0.37			0.01			0.03			0.32	0.15	0.31	0.21			0.01		0.12		0.01			1.32	0.34	0.01		
HANA 354	A	8.45	0.06	0.09	0.46	3.72			0.09						0.14	0.19	2.48	0.03	0.78	0.22						0.08							0.04		
HANA AIRPORT	A	11.24	0.03	0.02	0.10	0.48	3.90	0.10	0.02	T			T		0.35	0.11	T	3.69	T	0.11	0.07	T								1.52	T	T	0.04		
HANAHULI 281	A	11.96	0.33	0.14	0.41	0.54	1.70	0.15		0.14			0.02		T	0.02		0.03	3.48	0.09	1.13	0.45	0.12	T		0.41	T	T	T	2.30	0.05	0.03	0.42		
HOLUA CABIN 259.5	A	11.85											0.00												0.50								2.35		
HONOKOHU 480	A	7.50																															7.50		
HONOKOHU 493	A	6.89			0.06	0.14	0.49			0.43			0.06	0.03				2.05	0.49	0.62				1.06		0.09						1.32	0.02		
HONOMANU GULCH 341	A	7.20																															7.20		
KANAWA INTAKE 374	A	7.97				0.45	0.58							0.32											2.97										
KANULUI WS AP	R	4.31		T	0.12	0.08	T	0.07	T									0.28	0.56	0.69	0.36	0.14				T	T		T	1.20	0.79		0.02		
KAILIHI 436	A	7.72																															7.72		
KAILUA 446	A	9.65	0.21	0.07	0.45	1.39	0.40	0.58	0.04		0.01				0.55	0.28		0.28	0.01					0.50		0.02	0.02	0.04			0.78		0.02		
KAUAI INTAKE 375	A	6.89								0.96														3.96				0.02					1.74		
KEAHUA 410	A	4.11		T	0.04	0.15	0.17	0.28	0.21			0.03						0.59	0.03	0.46	0.42	T		0.11	T	0.01				1.57	0.03	T	0.01		
KEANEA 346	A	16.30																																	
KEAWAKAPU BEACH 260.2	A	5.66											0.01		0.01			3.91	0.01	0.07	0.28										1.36		0.01		
KIHEI 311	A	3.89																1.43	0.10	0.18	0.33						0.01					1.83		0.01	
KIPAHULU 258	A	12.17	0.95	0.20		0.97	1.72	0.17										3.82	0.10	1.33	0.33										2.53	0.05			
KULA HEIGHTS 323.2	A	3.79				0.03	0.48						0.02					1.02		0.38	0.27										1.49	0.10			
KULA SANATORIUM 267	A	6.81				0.01	0.09	0.01					0.07	0.02	0.03			3.10	0.20	0.46	0.07	0.01			0.02	0.01	0.09		0.20	1.10	0.45	0.06			
LAHAINA 361	A	4.20											0.08					1.12	0.04	0.47	0.94			0.05	0.01	0.01					1.44	0.05			
LAUNIPUPOKO INTAKE 376	A	6.00																															6.00		
LAUNIPUPOKO VILLAGE 372	A	5.80											0.10					1.54		0.98	1.26			0.08							1.60	0.24		5.70	
LUPU UPPER 442	A	15.70																																	
MAHINAHINA 666	A	7.15			0.48	0.26	0.58			0.03			0.04		0.19			2.65		0.12	1.38			0.07		0.09					1.20	0.06		0.01	
MAKALELE -ELD 60-497	A	5.98							1.29						0.07				0.94	0.21		0.45		0.01	T		0.08	0.03				1.51		0.01	
OLINGA 332	A	3.83		0.20	0.28	0.50	0.90		0.11	T			0.06	T					0.94	0.21		0.55											0.05		
OLOWALI 296	A	5.85						0.04					0.05					1.70	0.20	0.52	1.55						0.02				1.67	0.06			
OLOWALI GULCH 377	A	7.20																															7.20		
PAKKEA 350	A	14.35	0.87	0.37	1.09	1.17	7.40	0.58							0.59	0.11		0.65	0.16	0.70	0.28									0.98					
PAIA 406	A	5.92	0.05	0.08	0.03	0.56	0.65	0.33	0.38			0.01						0.69	0.04		0.18	T													

DAILY PRECIPITATION

Continued

HAWAII
JANUARY 1968

Station		Total	Day of Month																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAMUELA 192.2		4.39			.14	.12	.07	.02										.01	1.24	.76				.01			.12	.78	.18	.88	.04	.02	
KAMUELA AIRPORT		3.39			.08	.02	.02	.01											.88	.72	T		T				.20	.82	.10	.49	T	.05	
KAPAPALA RANCH 36	A	11.22		.77					.10	7								.24															
KAPOH LANDING 935	A	9.12																															
KAUAMUA 88.1		7.01	.15	.36	1.11	1.35	1.53	.93									.30																
KAWAII LOWER 193	A	6.73					2.25							.78						1.90													
KEAAU 92		7.66	.17	.20	.83	.98	2.08	.35	.15										.37	.05													
KEALAKEUA 26.2		5.75	.03	7	.01			.09										.01	1.12	2.04					.01	.16							
KEHEHA 181.2		11.42																															
KEHEHA RESERVOIR 176.1	A	9.35			.35	.44	.32			.06			.02	.01				.02	2.84	1.84			.10	.01									
KIOLA KAA A ? F 6	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KIPA 89.2		7.63	.37	.23	1.45	1.97	1.46	1.15	.01	T						.01	T																
KOHALA 179A		7.01			.13	1.39	.03			.08							.01	T			.12												
KOHALA MAULILI 176		8.60			.43	.86	.02			.12								.38	2.23	1.43					.17								
KOHALA MISSION 175.1		7.82	.02	T	.34	.96	7	.08	.01	1			.08					.40	2.57	1.49			.11										
																		.08	2.87	1.33	.12	.01											
KOIAWE LOWER 196	A	4.39					1.69													1.60													
KONA AIRPORT 68.3		3.87			.15	T		.13												1.98	T												
KUKAIUA 222		4.38	.01		.88	1.58	.01	.59	.08	7					.03				.09	.18													
KUKUJHAELE HLC 199		5.94			.31	.82	.10	.18	.15	.08									.42	.27	.02		.06										
KUKUJHAELE MILL 206		4.75			.23	.85	.01			.48									.26	.15													
KULANI CAMP 79		6.73	.15	.08	.84	.84	.99		.13							.02		.45	.62	1.06	.11												
KULANI MAUKA 76	A	2.65			.74	.29	.36													.14													
KULANI SCHOOL SITE 78	A	6.50																															
LANIAU 68 C		6.23			.18		.20										4.00																
MANUKA 2	A	6.27					.06			.26	.02							.25	.35	1.42				.21									
MAUNA KEA BEACH		4.48						.02										.01	.17	.94													
MAUNA LOA SLOPE OBS		1.61			.04	.03	.38																										
MIDDLE HOLUALOA 68.1		5.92																7	.11	.34													
MIDDLE PEN 147.1	A	5.31				.40													1.70	1.65													
MOAULA 18		14.84																		1.90													
MOUNTAIN VIEW 91		12.49	.25	.28	1.11	1.00	2.85	.58	.25											.08	.34												
NAALEHU 14		11.40				.03	.06		.49	T			.01				.01			.08	.34												
NAPOOPOO 28		5.42	.11						.22									1.47	.29	1.72	.04			.12	.04	.01	1.06	2.47		2.87	.72	7	
NAULU FOREST 38.6		21.21	.04	.02	.14	.02	2.05	.07	.27	T								2.02		.49	.14												
NIULII 179		7.88			.20	1.03	.06			.12			.01							1.93	1.38												
OAKALA 223		5.18	.05	.04	.47	1.70	.05	1.01	.01	T							.01	7		.95	.01												
OPHIJHAELE 2 74.1		5.63	.04	.08	.01		.11		.01									1.55	.95	.01													
ORCHID LANE EST 91.5		9.17					5.96													1.72													
PAAHU 217		3.46			.60	.93	.08	.08	.07	.05									.09	.07	.02												
PAUULI 221		2.83	T		.56	1.24	.01	.34	.04	T					.10				.03	.10			.04										
PAHALA 21		17.24				.02	.13	.44	.48										.12	.01	1.95	.06	.03										
PAHOA 65		14.75	.11	.12	.53	.75	3.35	.27	.12								.02	.01	.22	.19	1.38	.16			.15								
PAKAO 37	A	8.75																															
PAPAIOU 144A		5.53	.36	.23	.65	1.59	1.38	.51										.02	.02		.09	T											
PAPAIOU MAUKA 140.1		7.47	.66	.16	1.06	2.00	1.14	1.36	.02							.17	.02			.08	T												
PEPEKEO MAKAI 144		4.73	.29	.44	.26	1.12	1.56	.30							.01			.10	.01		.05												
PIIHONUA 89	A	12.00																															
POHAKULOA 107	A	3.63					.04	.41	.01																								
PUAKO 95A		4.05						.02																									
PUU KIME 120	A	3.61																		1.01													
PUU LAU 102.1	A	3.15																															
PUU LEHUA 73	A	4.40																															
PUU MALI 113	A	2.96																															
PUUKUMAU 167	A	9.96			.22	.45	.27			.75			.12	.03				.05	3.52	1.73			.09										
PUU OO 82		4.00	.11	.13	.24	.85	.25	.63	.02										.07	.20	.08												
PUU WAANAA 94.1		3.19						.02											.10	.46													
SAONLE ROAD 1 84	A	11.23					9.20						1.07							.41													
SOUTH POINT CORRAL 3	A	8.37		.43																	.70	1.12											
UMIKOA 118		4.81			1.33					.20	.02								.14	.28	.30												
UPOLU POINT USCG 159.2		6.59	.02		.04	.42	.04	.03					.12	T					.26	2.86	.50	.14											
WAIKAE SC0 88.2		7.04	.21	.17	.88	1.00	1.82	.66									.03		.02	.73	7												

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h
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DAILY TEMPERATURES

HAWAII
JANUARY 1968

Station		Day Of Month																															Average		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF KAUAI																																			
KANALOHULUHULU 1075	MAX MIN	65 56	64 56	63 54	66 52	65 53	66 50	66 53	65 45	65 39	58 44	66 51	60 48	60 49	66 45	65 44	62 53	61 53	62 54	63 55	64 55	64 60	65 59	65 55	63 48	63 49	62 43	60 48	62 49	58 52	65 47	65 51	63.4 50.6		
KILAUEA POINT 1133	MAX MIN	76 67	78 68	77 70	78 65	77 64	79 67	78 67	75 65	82 66	80 64	72 64	80 64	78 63	76 66	79 63	81 68	81 66	85 69	82 71	88 71	88 72	86 68	80 62	80 64	76 64	79 64	78 60	80 65	78 63	79.6 65.7				
LIHUE WB AIRPORT	MAX MIN	74 70	76 69	76 70	75 67	76 65	76 65	75 64	75 60	76 57	77 58	75 58	78 56	75 59	76 57	78 63	77 63	78 63	79 65	78 68	81 73	78 73	78 74	77 69	77 61	74 57	76 57	77 58	76 60	76 57	75 57	74 58	76.4 62.6		
MAKAHUEA POINT	MAX MIN	78 72	78 71	78 70	79 66	78 66	79 67	80 66	80 65	80 64	81 63	79 61	80 64	80 63	82 64	81 65	84 66	79 66	81 68	80 73	83 73	84 75	83 70	82 70	82 59	79 58	79 61	82 67	76 66	78 62	81 62	82 66	80.3 66.0		
MANA 1026	MAX MIN	78 64	78 63	80 60	80 60	80 64	80 63	80 61	81 59	80 59	79 65	77 64	76 62	80 62	75 63	79 64	81 66	78 66	78 62	81 66	81 65	81 64	82 63	80 70	77 57	77 62	78 61	80 64	77 60	78 62	78 64	77 62	78.9 62.7		
NIU RIDGE 1035	MAX MIN	78 59	79 60	79 58	80 60	71 61	78 62	79 63	79 58	78 59	78 60	75 60	75 61	75 60	74 58	78 58	77 59	78 62	78 63	78 65	79 64	80 65	80 65	79 64	76 59	76 58	70 61	75 59	72 60	70 60	70 59	75 62	75.6 60.7		
WAIKAI LOWER 1054	MAX MIN	73 66	74 65	76 62	75 64	73 62	76 57	77 58	78 54	78 52	78 54	77 53	78 50	78 55	78 53	77 59	76 61	77 61	80 61	79 66	81 69	81 69	77 67	78 62	78 52	76 51	79 52	79 63	79 57	79 53	77 51	75 53	77.3 58.5		
ISLAND OF OAHU																																			
EWA PLANTATION 741	MAX MIN	76 65	79 67	79 65	81 65	77 63	83 62	81 63	80 61	78 56	79 57	80 60	80 58	78 60	80 57	81 58	74 60	80 63	80 64	82 67	81 67	80 71	81 72	76 69	79 67	79 63	81 63	71 67	79 60	80 58	80 57	81 57	79.2 62.0		
HONOLULU WBAP 703	MAX MIN	77 72	83 70	79 70	80 69	80 67	82 67	79 65	80 64	80 59	82 59	80 64	82 62	78 62	81 61	80 62	76 66	81 68	80 69	82 71	81 72	81 75	83 73	78 69	80 67	80 63	80 63	75 67	80 62	81 62	79 60	79 60	80.0 66.0		
HONOLULU SUBSTA 704	MAX MIN	76 72	78 68	77 71	78 69	77 69	78 68	76 69	76 68	76 64	77 66	76 67	78 68	76 66	78 65	79 67	75 64	79 71	79 67	80 73	80 69	81 74	80 73	78 70	77 66	77 66	74 65	78 67	77 63	77 64	77 65	77.5 67.8			
KAHUKU 912	MAX MIN	83 68	83 68	83 68	77 68	77 68	77 68	78 65	78 65	78 60	78 62	78 58	78 58	81 59	80 60	77 64	80 62	80 67	80 67	80 67	80 67	87 64	87 66	78 61	78 57	78 58	82 60	78 62	78 58	82 60	78 56	78 56	82.4 62.4		
KANEHE MAUKA 781	MAX MIN	76 70	75 70	78 65	75 69	77 68	76 65	78 66	77 66	77 66	76 65	72 63	78 65	78 63	75 64	76 66	76 66	75 66	78 68	77 68	79 72	78 72	79 73	80 69	76 63	76 63	77 63	79 63	81 63	72 65	79 61	72 62	71 62	76.5 66.3	
MAKAPUU POINT 724	MAX MIN	76 68	73 67	75 69	74 67	73 68	75 68	75 66	74 67	76 66	74 68	76 67	75 67	76 64	77 67	76 69	72 67	78 66	77 68	78 68	74 70	75 67	78 67	78 67	74 67	74 67	75 65	78 68	77 67	71 66	76 69	75 66	73 63	75.3 67.3	
OPAEULA 870	MAX MIN	81 68	81 68	81 68	77 68	77 68	77 68	80 65	77 55	75 56	76 56	76 56	78 56	75 56	78 58	72 61	78 58	76 58	76 64	78 64	72 67	76 67	76 68	72 68	75 56	76 56	78 58	77 60	75 58	75 56	76 56	76 56	76 56		
PRI WAHIAWA 820.2	MAX MIN	78 68	79 58	78 64	76 63	79 63	79 63	79 62	80 62	77 55	79 54	76 57	77 58	76 58	74 55	80 55	81 56	81 62	77 65	77 65	77 65	77 65	80 67	76 69	81 69	81 69	74 60	78 55	80 55	82 61	79 57	80 56	75 56	75 56	78.2 60.3
WAIKALUA 847	MAX MIN	80 60	79 61	79 62	79 62	78 62	78 62	76 62	77 62	77 56	78 60	77 57	76 57	80 58	75 59	78 56	83 59	78 64	80 63	80 63	85 71	86 71	86 71	84 73	84 65	76 56	74 56	71 60	78 64	76 64	77 59	78.6 61.6			
WAIKIKI 717.2	MAX MIN	81 70	76 70	82 69	82 69	83 70	82 66	84 64	84 61	80 56	79 58	80 64	81 58	81 60	82 59	82 62	85 68	76 65	82 68	82 68	84 71	82 71	83 74	83 68	82 62	81 60	80 60	82 64	73 65	81 56	81 57	81 56	81.2 64.2		
ISLAND OF MOLOKAI																																			
MOLOKAI AP 524	MAX MIN	78 67	75 70	77 65	75 67	77 67	76 63	77 65	75 65	77 58	75 60	76 65	77 64	78 65	77 65	77 61	80 69	74 69	79 71	77 69	74 71	77 69	77 69	79 68	76 65	77 64	74 64	79 67	81 62	76 64	75 62	76.7 65.5			
ISLAND OF LANAI																																			
LANAI CITY 672	MAX MIN	76 59	71 62	74 60	72 64	75 63	72 60	70 63	73 61	71 57	72 60	73 60	73 61	72 61	75 63	79 58	73 58	75 65	74 67	78 68	70 67	73 66	79 66	78 62	78 62	76 58	76 57	78 62	71 57	70 61	74 56	76 56	74.0 61.2		
ISLAND OF MAUI																																			
HALEAKALA RS 338	MAX MIN	66 49	65 48	57 41	52 41	59 45	57 42	55 39	59 39	64 40	62 41	60 42	60 47	60 41	57 36	58 36	60 38	57 47	55 46	60 48	58 50	64 51	68 44	63 42	63 44	62 41	58 42	57 41	54 43	56 38	59 37	57 41	59.4 42.6		
HALEAKALA SUMMIT 338.4	MAX MIN	79 70	76 68	79 69	75 69	76 67	75 65	76 63	78 61	78 62	76 57	79 62	80 60	80 57	79 64	79 69	80 66	77 68	80 65	84 70	80 70	82 66	83 65	84 65	82 66	76 62	78 65	80 67	78 65	80 61	77 58	77 61	78.8 64.6		
HANA AIRPORT	MAX MIN	79 69	76 68	79 69	75 65	76 66	75 65	76 64	78 58	78 56	76 55	79 63	80 63	80 57	79 64	79 69	80 68	79 68	80 70	78 72	80 72	80 72	79 66	76 65	76 62	79 62	71 63	78 63	77 57	75 57	76 56	77.8 63.8			
KAHULUI WB AP	MAX MIN	76 69	79 69	75 67	80 65	78 66	75 65	77 64	78 58	75 56	76 55	78 63	79 63	79 64	83 58	79 68	80 68	79 68	80 70	78 72	80 72	80 72	79 66	76 65	76 62	79 62	71 63	78 63	77 57	75 57	76 56	77.8 63.8			
KAILUA 446	MAX MIN	76 59	73 63	75 62	71 61	71 63	74 59	76 55	75 55	75 55	72 55	80 55	81 55	76 58	78 61	78 61	82 61	82 62	82 62	82 61	82 61	82 61	82 61	82 61	82 58	82 58	82 58	82 58	82 58	82 58	82 58	78.4 59.1			
KULA SANATORIUM 267	MAX MIN	71 56	65 53	72 53	67 54	69 55	67 57	69 54	70 52	68 48	63 47	66 48	67 55	67 55	69 52	72 53	74 61	69 60	65 60	73 61	68 62	77 63	78 63	72 57	73 57	72 56	67 58	72 53	68 53	73 48	67 49	66 49	69.4 55.0		
LAHAINA 361	MAX MIN	84 67	79 69	79 64	81 64	82 67	80 66	82 66	78 61	80 60	78 61	80 64	80 63	80 60	81 63	81 64	81 67	80 67	79 67	78 70	78 70	78 70	80 68	80 65	80 67	81 64	79 64	80 65	71 65	80 62	80 60	81 61	79.9 64.8		
WAILUKU 392	MAX MIN	81 66	77 65	80 65	77 63	80 64	79 63	79 62	79 61	79 60	77 54	79 57	81 58	81 59	82 59	81 57	85 59	81 63	80 63	78 67	78 68	78 69	83 63	83 61	83 62	77 59	81 60	83 61	74 61	80 58	79 55	79.8 61.3			

See Reference Notes Following Station Index

HAWAII
JANUARY 1968

Continued

Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	75	77	77	73	75	74	75	75	78	75	78	78	77	79	78	81	78	79	79	76	81	79	80	80	79	77	75	75	75	78	78	77.2
	MIN	66	64	61	62	61	59	59	58	57	58	56	63	62	60	58	61	70	63	65	62	63	79	62	60	63	62	61	61	60	60	60	61.3
HAWAII VOLCNS NP HQ 54	MAX	61	63	62	63	64	67	66	67	66	67	68	68	69	68	67	68	64	63	63	64	63	71	69	69	68	64	65	61	62	68	67	65.6
	MIN	59	51	52	53	54	54	46	45		45	49	46	48	48	47	47	58	53	57	54	49	52	49	47	49	49	49	49	47	44	45	49.8
HILO WB AIRPORT	MAX	78	78	79	80	74	79	78	79	78	82	81	82	80	83	82	84	81	82	81	85	87	84	84	81	81	80	78	78	79	80	80	80.6
	MIN	67	65	68	69	67	64	61	60	60	61	61	61	63	65	67	70	69	67	69	68	64	67	65	64	68	69	70	68	63	61	61	65.2
KAINALIU 73B	MAX	78	75	75	75	77	76	78	75	74	79	75	75	78	77	77	77	76	72	80	78	79	78	79	77	76	76	77	73	78	73	74	76.4
	MIN	63	63	60	61	63	61	58	56	56	54	58	57	55	57	57	61	65	63	64	63	62	73	64	60	64	63	63	61	55	54	57	60.0
KAMUELA 192.2	MAX	67	67	71	67	70	66	76	69	74	70	69	67	70	74	76	77	67	72	75	78	78	78	79	75	74	75	75	74	70	72	71	72.2
	MIN	56	58	57	56	56	49	52	52	44	47	50	50	53	55	44	45	48	60	60	55	56	56	57	50	53	58	53	56	53	44	47	52.6
KAMUELA AIRPORT	MAX	69	69	71	69	70	69	71	68	72	68	67	67	70	72	75	74	75	69	70	72	76	74	73	74	71	70	72	68	72	69	71	70.9
	MIN	49	49	54	50	55	50	50	48	49	50	49	54	53	49	50	45	45	49	60	55	56	61	50	49	48	48	55	54	58	45	41	50.9
KEAAU 92	MAX	82	82	82	77	76	79	79	79	80	80	82	80	81	81	81	82	80	81	85	85	85	85	84	82	78	80	80	80	80	81	78	80.9
	MIN	63	63	63	65	64	58	58	58	58	60	60	58	61	61	61	67	70	65	65	62	62	62	63	63	65	65	62	62	62	60	60	62.1
KEALAKEKUA 26.2	MAX	79	74	73	74	75	78	77	78	76	74	78	76	79	78	78	79	76	72	80	78	79	80	80	77	77	75	79	74	78	75	75	77.0
	MIN	62	62	61	60	63	61	58	59	58	55	59	59	54	58	59	62	66	64	65	64	64	65	63	60	63	65	64	61	58	57	59	60.9
KOHALA MISSION 175.1	MAX	75	77	77	75	75	75	78	76	77	73	78	77	78	78	77	82	77	76	82	82	79	81	79	79	77	79	79	75	78	78	77	77.5
	MIN	68	67	64	65	65	64	63	64	60	60	62	64	65	63	63	63	64	67	68	67	65	66	65	63	64	65	65	64	60	61	64.2	
KONA AIRPORT 68.3	MAX	85	85	82	83	84	80	83	82	83	83	82	80	83	81	83	83	83	81	82	83	81	83	85	81	81	80	81	80	77	81	81	82.0
	MIN	65	65	62	62	63	66	65	62	64	62	62	65	65	65	64	65	65	69	68	64	66	65	65	63	68	68	68	63	61	61	61	64.4
KULANI CAMP 79	MAX	63	59	58		60	59	61	54	66	65	68	66	61	63	64	68	60	66	68	68	73	75	68	64	70	62	60	60	62	64	64.0	
	MIN	43	45	44		45	42	39	36	36	35	38	38	38	38	38	48	52	46	58	58	50	44	64	55	50		50	44	36	40	43.4	
MAUNA KEA BEACH	MAX	83	84	86	86	84	85	84	87	87	80	81	81	82	82	81	83	81	80	84	87	85	85	85	83	81	79	84	81	82	80	83.0	
	MIN	70	70	71	70	68	65	64	63	61	63	66	65	64	63	64	66	69	68	68	69	70	69	67	66	68	67	67	65	61	62	66.3	
MAUNA LOA SLOPE OBS	MAX	50	48	47	47	42	41	46	52	53	48	53	53	55	52	57	50	50	50	48	53	52	51	51	51	50	52	54	37	39	44	42	49.0
	MIN	35	35	31	34	34	32	29	31	33	33	37	35	37	36	34	41	36	37	36	35	33	34	36	35	36	35	35	32	25	29	29	33.9
MOUNTAIN VIEW 91	MAX	72	71	71	69	70	67	73	72	73	74	77	76	77	76	75	75	76	77	80	79	77	85	78	78	73	73	73	73	71	76	75	74.6
	MIN	61	57	59	60	58	57	54	51	50	52	52	53	53	55	59	59	63	59	59	61	56	59	57	56	55	61	61	60	59	53	53	56.8
NAALEHU 14	MAX	78	78	78	76	78	78	78	78	78	75	79	78	78	81	81	78	75	78	80	80	80	80	79	79	77	71	71	78	78	78	77	77.8
	MIN	61	61	61	66	66	66	62	62	62	56	59	59	59	60	60	69	67	68	68	68	66	66	64	62	66	66	66	66	59	62	62	63.4
OOKALA 223	MAX	77	76	80	76	78	75	75	75	76	75	79	81				82	80	81	76	84	78	83	83	80	80	80	80	80	75	77	77	78.4
	MIN	67	66	64	65	66	68	66	65	62	62	63	64				65	66	66	67	68	67	67	67	68	65	64	65	68	65	64	63	65.4
OPIHIKALE 2 24.1	MAX	75	72	72	75	74	76	74	73	71	75	75	77	76	75	78	76	77	79	80	81	77	77	76	74	76	77	74	74	72	74	73	75.3
	MIN	60	52	57	57	59	55	54	55	55	56	53	53	55	53	53	58	62	61	62	61	60	60	56	55	54	60	59	55	52	52	54	56.8
PAHALA 21	MAX	78	77	77	79	78	75	77	78	77	74	77	79	80	79	78	78	76	80	79	76	76	80	78	77	75	72	73	73	73	77	76	76.8
	MIN	62	62	63	63	63	62	60	61	61	58	57	57	56	58	60	63	66	64	65	65	61	63	60	60	60	60	60	60	64	63	58	57	61.0
UPOLU POINT USCG 159.2	MAX	78	78	77	79	79	76	78	78	79	78	80	78	80	81	81	83	80	78	82	82	81	83	83	83	83	80	81	81	81	81	81	80.1
	MIN	72	69	66	66	67	69	66	67	61	65	67	69	66	66	65	67	72	69	68	69	70	70	68	67	69	67	68	67	66	66	66	67.4

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WB AIRPORT	EVAP	.26	.07	.17	.27	.15	.21	.15	.22	.22	.21	.25	.26	.30	.18	.16	.26	.31	.34	.31	*	.41	.13	.14	.23	.21	.14	.11	.11	.25	.22	.15	6.40
	WIND	147	167	109	161	138	66	59	65	66	81	99	75	94	87	50	104	177	112	186	*	395	133	45	55	58	60	52	48	62	63	52	3066
	MAX	71	73	78	81	77	79	83	82	83	82	78	82	79	79	82	82	76	81	81	-	82	77	80	88	79	79	76	79	82	82	80	79.8
	MIN	67	66	65	64	65	63	63	60	57	58	58	56	56	56	57	63	62	62	63	-	64	67	66	56	56	56	61	62	57	56	56	60.6
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.13	.11	.08	.13	.10	.07	.13	.12	.11	.10	.12	.11	.07	.10	.12	.18	-	.15	.11	.11	.14	.15	.13	.18	.14	.10	-	*	.13	.13	.11	3.598
	WIND	54	34	45	38	32	20	19	23	14	12	22	13	19	10	27	28	47	23	17	25	57	43	18	18	13	12	24	27	17	14	22	787
	MAX	83	75	80	78	81	78	86	83	82	81	81	86	-	84	84	85	86	87	87	90	89	89	89	89	86	84	87	77	80	87	83	83.9
	MIN	68	67	65	65	66	65	64	63	62	61	62	63	-	61	61	61	62	67	70	69	73	73	65	66	64	64	66	66	65	64	61	65.0
* * * ISLAND OF HAWAII																																	
HILO WR AIRPORT	EVAP	.02	.13	.04	.03	.02	.20	.21	.23	.09	.19	.13	.17	.08	.15	.10	.22	.12	.15	.03	.07	.24	.13	.21	.13	.05	.04	.03	.03	.23	.23	.13	3.83
	WIND	35	55	40	40	23	81	138	87	55	62	46	47	42	77	112	211	79	47	70	131	90	49	56	75	41	50	94	63	106	84	57	2243
	MAX	78	77	78	77	71	82	85	81	77	82	80	84	77	84	82	82	78	80	81	84	86	80	82	77	76	79	75	76	81	84	85	80.0
	MIN	65	63	63	66	65	66	59	58	58	60	60	61	60	61	67	68	66	65	65	66	63	65	72	64	65	66	66	65	61	60	59	63.5

See Reference Notes Following Station Index

KAWAII
JANUARY 1968

- 10 -

STATION INDEX

HAWAII
JANUARY 1968

JANUARY 196																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
3-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shows following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

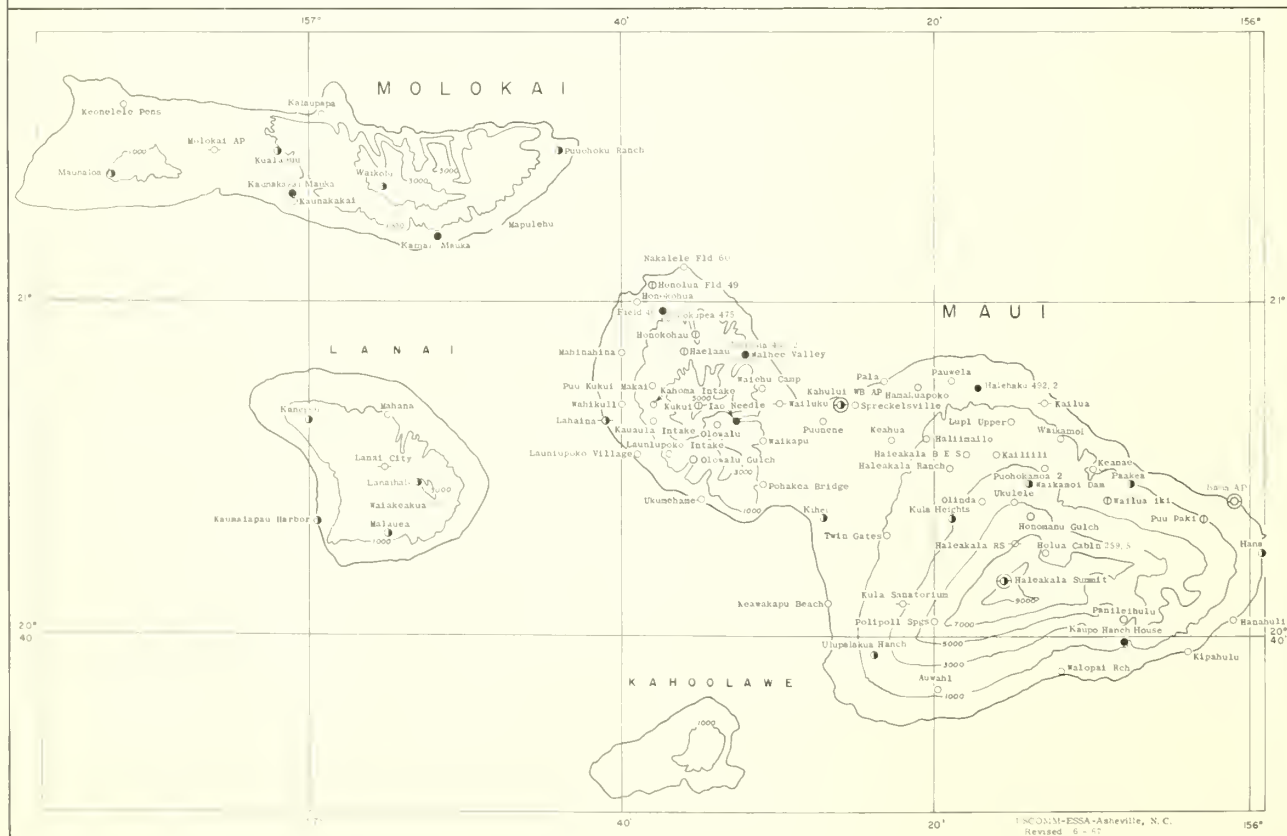
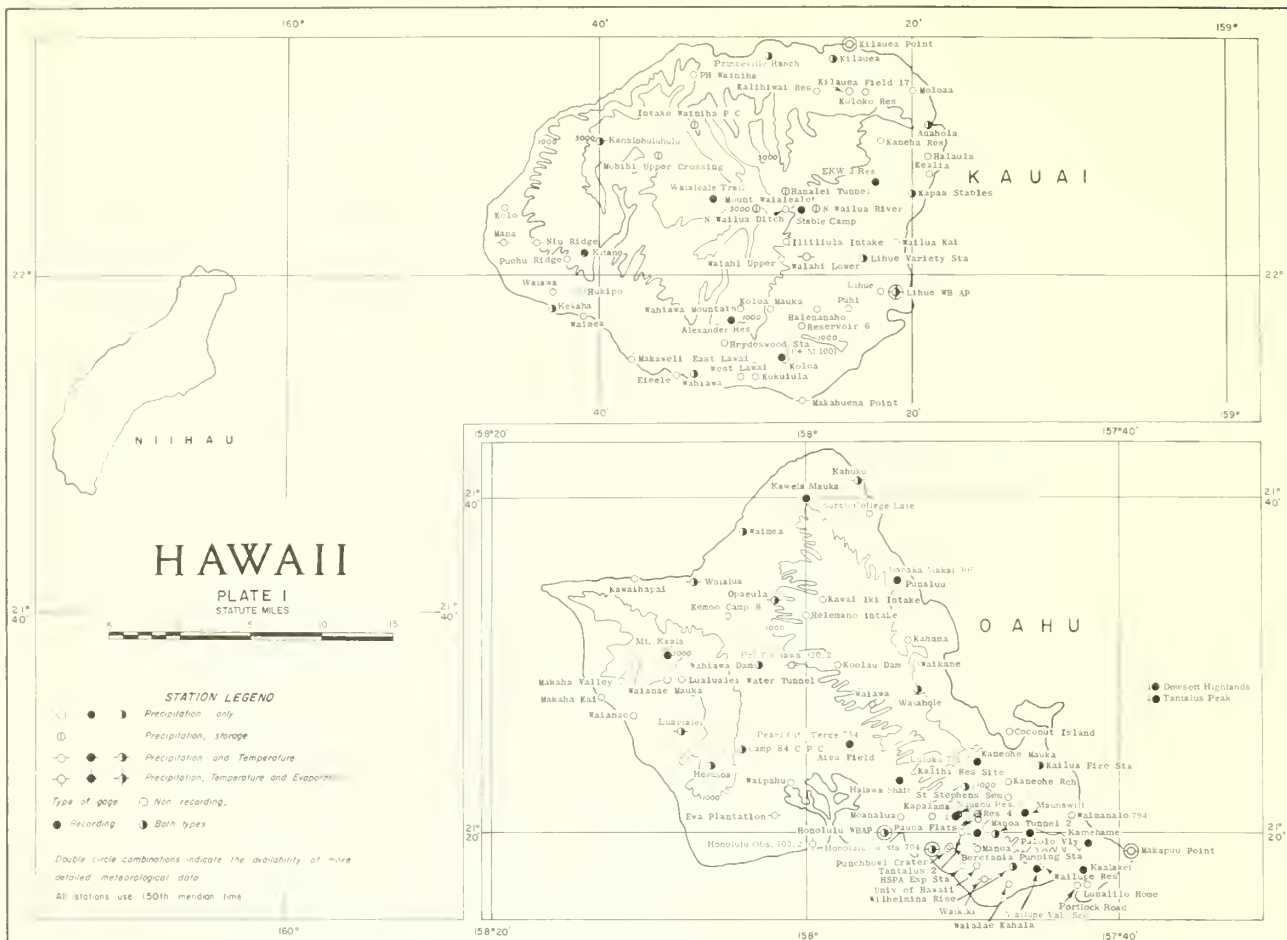
- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletins. If daily amounts are published in "Climatological Data" bulletins they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletins.
- MO Gage read once monthly, usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

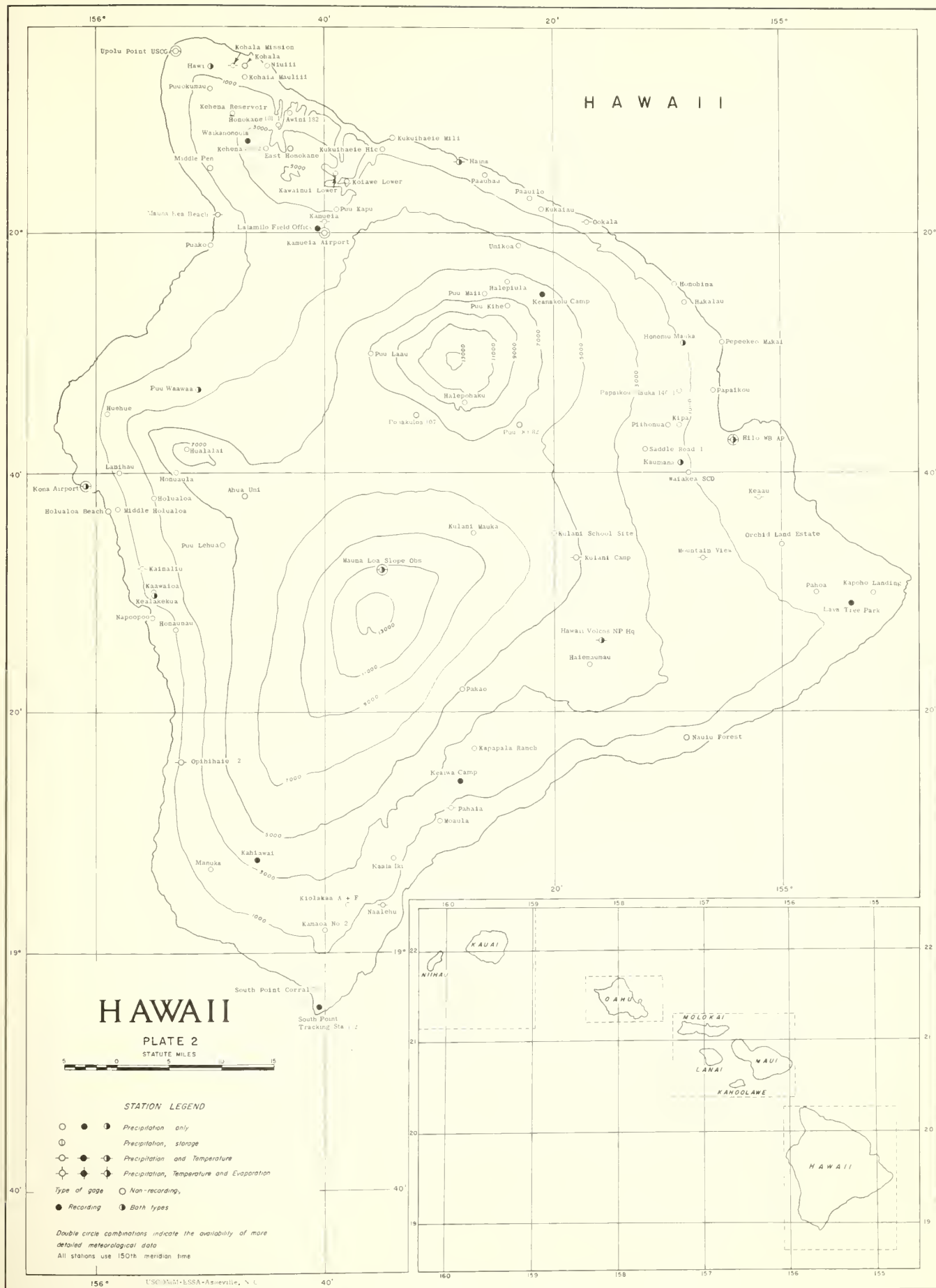
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.





CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE

C. R. SMITH, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

FEBRUARY 1968

Volume 64 No. 2

CLIMATOLOGICAL DATA

JUN 17 1968

Station		Temperature										Precipitation																									
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Snow, Sleet	Date	No. of Days															
											Max.	Min.	Total	1.0 or More								5.0 or More	10.0 or More														
																								60° or Above	50° or Below	32° or Below	0° or Below										
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																							60° or Above	50° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth 					

See Reference Notes Following Station Index

CLIMATOLOGICAL DATA

CONTINUED

HAWAII
FEBRUARY 1968

Station	Temperature										Precipitation																
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.		Min.						Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										90° or Above	32° or Below	32° or Below	0° or Below														
ISLAND OF HAWAII																											
HALEAKALA 214	79.2	61.4	70.3	.8	86	16	56	10*		0	0	0	0	1.62	- 5.30	.60	9	.0	0		6	1	0				
HAWAII VOLCANO NP HQ 54	67.4M	51.7M	59.6M	1.7	73	21*	45	16*		0	0	0	0	5.39	- 4.86	1.57	4	.0	0		4	2	1				
HILO WB AIRPORT	84.3	65.4	74.9	4.3	92	20	60	11		3	0	0	0	11.46	- 1.48	8.96	3	.0	0		4	2	2				
HUEHUE 92A														4.79	2.08			.0	0								
KAINALIU 73B	77.3	61.2	69.3		83	20	57	12*		0	0	0	0	4.25	.86	1.71	18	.0	0		7	3	1				
KAMUELA AIRPORT	72.6	48.0	60.3		76	23*	39	2		0	0	0	0	6.18		1.55	18	.0	0		9	5	2				
KEAAU 92	83.9	62.5	73.2	2.9	89	22*	58	12*		0	0	0	0	13.60	.17	8.42	4	.0	0		6	3	3				
KEALAKEKUA 26.2	78.3	61.1	69.7		82	29*	58	24*		0	0	0	0	2.94		1.64	18	.0	0		5	1	1				
KEHENA RESERVOIR 176.1														6.55				.0	0								
KONA AIRPORT 68.3	81.1	65.4	73.3		84	29*	61	1		0	0	0	0	3.19		1.45	18	.0	0		4	3	1				
KUKUIHAELE HIC 199														2.35	- 4.96	.65	18	.0	0		6	3	0				
KULANI CAMP 79	65.7M	44.7M	55.2M		73	23	38	10		0	0	0	0	3.43		1.46	4	.0	0		6	1	1				
MAUNA KEA BEACH	83.4	67.0	75.2		90	20	64	12*		1	0	0	0	3.33		1.17	8	.0	0		5	2	1				
PAHALA 21	78.9	61.4	70.2	1.4	86	18	57	18*		0	0	0	0	10.65	4.06	3.37	9	.0	0		7	4	4				
POHAKULOA 107														1.76				.0	0								
PUAKO 95.1														2.71		.60	22	.0	0		5	3	0				
PUU HAAWAA 94.1														4.86	2.29			.0	0								
UNIKOA 118														2.43	- 8.12	.46	8	.0	0		0	0					
WAIKOLA SCO 89.2														8.78		5.46	4	.0	0		7	3	2				
ISLAND			68.3											5.28				.0									

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 92° ON THE 20TH AT HILO WB AIRPORT, HAWAII

LOWEST TEMPERATURE: 27° ON THE 1ST AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 17.34 INCHES AT KALAPANA NO 1 67.B, HAWAII

LEAST TOTAL PRECIPITATION: 1.17 INCHES AT KULANI MAUKA 76, HAWAII

GREATEST ONE-DAY PRECIPITATION: 8.96 INCHES ON THE 30 AT HILO WB AIRPORT, HAWAII

SPECIAL WEATHER SUMMARY

Although February was free from violent or destructive storms, it was nevertheless a month of noteworthy weather.

It was distinguished chiefly by the continued failure of the trade winds, an absence which had begun early in December. While the trades in Hawaii are on the average less prevalent in February than in almost any other month, their absence for so extended a period was without recent precedent. February 1968 was, in fact, the first month without a single daily "fastest mile" from the northeast at Honolulu International Airport since records of this kind began there in March 1951.

Other noteworthy weather events included several days of strong southwesterly winds and high surf, an unusually large number of waterspouts and funnel clouds, and localized heavy rains on Lanai, Molokai, and Maui.

1) **HEAVY RAINS:** On the morning of the 3d, heavy rain in the Puna district of Hawaii Island made the Keeau-Pahoa Road impassable and flooded parts of Pahoa Village, but apparently without doing serious damage. Heavy rain also fell in the Lihue, Kauai, area.

During the morning of the 21st, heavy rain caused some flooding of streets and property in the Kaunakakai area on Molokai, but seems to have done no damage.

2) **STRONG WINDS AND HEAVY SURF:** On the 15th, strong southwesterly winds ahead of a slowly-moving cold front swept into the island chain, causing numerous power failures along Oahu's east coast, unroofing 2 houses in Kaneohe, where at 3:44 a.m. the Marine Corps Air Station recorded a gust of 62 m.p.h. from the southwest, and slightly damaged fruit and vegetable crops on Oahu and Maui.

On the 16th, unusually high surf, driven by southwesterly winds, pounded Hawaii Island's Kona coast and, for the third time in 2 months, rolled into a seaside hotel in Kona, but seemingly without causing damage.

On the morning of the 18th it sank an \$8,000 boat in Keauhou Bay, while in the early morning of the 26th, strong winds and high surf tore a \$90,000 fishing boat from its moorings and destroyed it on the rocks fronting Kailua Bay.

3) **FUNNEL CLOUDS:** At least 12 waterspouts and three funnel clouds were observed on 4 days during the month. Between 9:00 and 9:30 a.m. of the 15th, the Kaneohe Marine Corps Air Station on Oahu's east coast reported 2 separate groups of short-lived waterspouts disturbing the sea

surface 1/2 to 2 miles away. The first group, consisting of three or four spouts, was observed to the south moving eastward; while the second group, containing two or three spouts, was seen to the west moving northwestward. The lowest 200 to 300 feet of the spouts was discernible against a dark background of vegetation, but the tops were obscured by heavy rainshowers. Southwest winds gusting to 45 m.p.h. were occurring at the time, and the waterspouts may have been topographically-induced by winds blowing across the crests or through the passes of the Koolau Mountains to the southwest.

On the 24th, a funnel cloud, associated with a heavy rainshower and towering cumulus, was sighted approximately 1-1/2 miles south of Koko Head, Oahu, at 11:24 a.m. moving slowly north or northeastward. Rotary motion and a downdraft were evident near the funnel, which extended halfway to the ocean from the cloud base. The funnel dissipated at 11:26 a.m. Winds were light and variable at the time. About 3 hours later, between 2:35 p.m. and 2:41 p.m., Weather Bureau personnel observed a stationary vertical waterspout approximately 8 miles south of Honolulu Airport. No rain was observed to fall from the parent cloud. A second spout, accompanied by two funnel clouds, was seen about 10 miles south-southeast of Honolulu Airport at 2:50 p.m., with nearby rainshowers falling from cumulus clouds with bases at 1,500 feet and tops at 8,000 feet. This waterspout dissipated at 3:01 p.m. and the attendant funnel clouds at 3:08 p.m. Stirring of the sea surface was observed with both spouts. Surface winds were west-southwest, 10 m.p.h.

Other waterspout sightings included an aircraft report of one 5 miles southeast of Kahoolawe Island at 8:00 p.m. on the 14th; another some 14 miles southeast of Honolulu Airport at 5:29 p.m. on the 24th, and two others off Kaena Point, Lanai, at 5:45 p.m. on the 28th.

4) **OTHER EVENTS WORTHY OF MENTION:**
a) The 92° maximum temperature on the 20th at Hilo Airport, the highest February reading in that station's 21-year history, and 4° above its previous highest maximum for the month.

b) A fastest mile of 38 m.p.h. (from the southwest) at Lihue Airport on the 20th, the highest "fastest mile" observed in February in its 17 years of record.

c) **HEAVY SNOWDRIFTS ON MAUNA KEA SUMMIT ON ABOUT THE 25TH:** The reversal of the wind from the usual northeasterly trades was strikingly reflected in a corresponding reversal in the rainfall pattern. Areas which are "windward" relative to the trades, and, therefore,

HAWAII - FEBRUARY 1968
SPECIAL WEATHER - CONTINUED

normally "wet" during the trade wind flow, were leeward relative to the southwesterly winds, and hence received less than their customary rainfall. Thus, all of the eastern two-thirds of Kauai and Oahu, "windward" east Maui, and the "windward" (eastern) coasts of Hawaii Island were relatively dry, with most gages reporting less than half of

their monthly means; while, in contrast, the usually dry western areas had well above their monthly averages.

A few stations with 25 years or more of record exceeded their previous highest monthly totals for February.

Stations Whose Greatest Previous February Rainfall Totals
were Exceeded in February 1968

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest February Total	February 1968
<u>MAUI</u>			
Kula Sanatorium	50	15.54	15.93
Launiupoko Village	41	7.74	8.33
Ukumehame	38	6.90	7.77

Saul Price
Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

Russell Dorr
Acting Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
FEBRUARY 1968

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																		
ANAHOLA 1111	A	2.95	.02	.33	*	1.83				.01	*	*	.05	.14	.09	.55	.94	*	*	.44	.51	1.50	.25	T	*	*	.01							
BRYCESWOOD STA 985	A	5.20	.01	.01	*	.35	.01	T	T		*	*	.05	.14	.09	.55	.94	*	*	.44	.51	1.50	.25	T	*	*	.13		.08	.14	*			
EAST LAHAI 934	A	5.42	T	.06	*	1.03	T				*	*	.11	.57	.07	.21	.70	*	*	.29	.58	1.15	.40		*	*	.10		.09	.06	*			
ELELE 927	A	3.04			*	.08					*	*	.01	.12	.07	.07	.29	*	*	.41	.27	1.12	.12		*	*	.07		.01	.02	*			
HALEAULA 1110	A	5.93		.04	*	2.10					.02				.07					.01	.65				*	.06								
HALENAHAO 1006	A	3.01		.11	*	1.95					*	*	.03	.54		.11	1.04	*	*	.27	.25	.88	.53	*	*	.11		.05	.06	*				
HUKIPO 945	A	4.88			*	.10							.08	.30	.16	.47	.51	*	*	.40	.24	2.05	.12		*	*		.28	.17	*				
ILILILULA INTAKE 1050	A	8.40	.13	.07	.70	.40					*	*	.20	.50	.10	.86	1.22	.14	.08		.37	2.67	.46		.37		.10	.08	*					
INTAKE WAINIMA PC 1086	A	6.85	*	.41	*	.07	*	*	.09	*	*	*	*	*	*	*	1.92	*	*	.62	*	*	2.40	*	*	1.34		*		*				
KALIMAHAI RES 1131	A	2.63	.16	.01	*	.16			.03	.22	*	*	.01	.02			.31	*	*	.19		.84	.14	.01	*	.06		.47						
KANALOHULULU 1075	A	16.33	.09	.03	.23	.12			.37	.11			.25	.29	.16	1.85	1.46	.38	1.20	.13	2.75	4.98	.03		1.03	.48	.03	.36	*					
KANEHA RESERVOIR 1092	A	4.17	.16	.03	*	2.57			.03								.06				.04	1.00	.14	*	*	.06		.08						
KAPAA STABLES 1104	A	3.46	.03	.05	*	2.45			*		*	*	.03				.13				.57			*	*	.02								
KEALIA 1112	A	2.83		.02	*	1.85					.01	*	.03				.06	.02			.72	.02		*	*	.04								
KEKAHA 944	A	3.92		.17	.05						*	*	.09	.25	.23	.34	.24	.04	.25	.05	.10	1.80			.20				.11					
KILAUEA 1134	A	3.21	.13	*	*	.16			.13	.13	*	*	.01				.07	.24	*	*	.45	.01	.80	.01	*	*	.10		.97					
KILAUEA FIELD 17 1135	A	2.51	.23	.01	*	.33	.01		.04	.12	*	*	.01	.01			.03	.08	.16		.13	.01	.59	.09	.01	*	.06							
KILAUEA POINT 1133	A	3.73		.02	.16			.17	.06		*	*	.03		.08	.16		.61						.01	.08			1.50						
KOLO 1033	A	5.87			.34	.64					*	*	.17	.11	.08	.81	.06	*	.16	.04	1.08	2.02			.15	.07		.14						
KOLOA 936	A	4.88	.02	.18	*	.94					*	*	.05	.50	.07	.25	.84	*		.28	.28	.90	.37	*	*	.10		.03	.07					
KOLOA MAUKA 994	A	7.22		.20	*	1.23					*	*	.31	.31	.21	1.01	.84	*	*	.31	.41	1.94	.05	*	*	.09		.10	.17					
KOLOKO RES 1137	A	2.82	.31	.01	*	.53	.01		.06	.12	*	*	.01				.05	.13	*		.02	.65		*	*	.04		.88						
KUKUIULA 935	A	3.65		.17	*	.82	.01				*	*	.20	.11	.17	.30	*	*	.31	.21	.97	.18	*	*	.09		.01	.10						
LIHUE VARIETY STA	A	3.93		.29	.88	1.07		.02			*	*	.11	.08	.01	.29	.07	*		.02	.03	.97		*	.09		.02	.03						
LIHUE 1020	A	4.33		.09	*	1.98	.02				*	*	.24	.13	.01	.17	.21	*		.13	1.08	.07	*	*	.05		.02	.03						
LIHUE WB AIRPORT	R	3.69		.02	2.08						T	T	.12	.07	T	.23	.05	T		.04	.08	.96		T	.01	T	.05	T						
MAKAHUNA POINT	A	4.88	.02	.13	1.76	1.58					.01	.04	.06	.05	.15	.30	.04	.06		.07	.34	.03	.05		.11	.01	.01	.04						
MAKANALI 965	A	3.13		.05	.02						.04	.11	.33	.34	.20	.19	.08	.09		.23	1.22	.01		.06			.10	.05						
MANA 1026	A	3.87		.11	.30	.04	.01						.07	.11	.04	.78	.04	.06	.05	.05	.26	1.81					.09	.03						
MOHINI UPR CROSS 1083	A	12.79		.17				.09					.26	.43	.43	2.57	1.20			.51	3.09	2.64			.86	.09	.43							
MOLAA 1145	A	2.31	.06	.17	*	.53				.01	.10						.02	.03	*		.02	.01	.50	.01	*	*	.02		.83					
NIU RIDGE 1035	A	5.00	.10	*	.33								.07	.12	.14	*	1.22	*	.11	.10	.40	2.01					.35							
N WAILUA DITCH 1051	A	9.55	.08	*	2.26								.14	.17	.04	.57	1.12	*		.14	.26	3.73	.14	*	*	.08		.05						
PH WAINIMA 1115	A	8.44	.76		.08	T		.05	.31				.18		.27	1.28	.11	2.05	T	.02	2.10	.01		.74	.68	.30		.10						
PRINCEVILLE RANCH 1117	A	3.24	.10	.02	.15			.14	.09				.02				.23		.45	*	.19	1.07			.02	.14		.56						
PUEHU RIDGE 1040	A	7.54	.36		.21						*	*	.12	.38	.25	.89	.74	*	.43	.13	.72	2.58		*	.49		.24							
PUMI 1013	A	5.97		.15	*	2.56					*	*	.37	.24	.02	.18	.50	*		.20	.28	.84	.42	*	*	.09		.05	.07					
RESERVOIR 6 1004	A	6.18			*	1.54					*	*	.13	.23	.08	.78	.03	*		.38	.39	1.40					.09	.06						
WAILUA 930	A	3.18		.01	*	.24					*	*	.02	.38	.18	.27	.25	*		.23	.21	1.14	.12	*	*	.11		.02						
WAILUA MOUNTAIN 990	A	8.25	*	*	*	*					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.25					
WAIAMI LOWER 1054	A	4.66		.48	.40								.09	.28	.07	.25	.92				.12	1.58	.17		.15		.07	.09						
WAIAMI UPPER 1052	A	6.18	.03	.55	.35						.03	.13	.53	.05	.24	1.37	.11				.33	2.03	.11	.01	.25		.01	.05						
WAILUA 943	A	4.06			.23						*	*	.09	.30	.15	.40	.22		.29	.09	.13	1.80			.21		.15							
WAILUA KAI 1065	A	2.88	.15	*	1.57						*	*	.03	.05	.04	.17	*			.02	.04	.57	.19	*	*	.05								
WAIKAE 947	A	3.86		.12	.01						T	T	.10	.15	.26	.48	.33	.01	.12	.07	.30	1.62			.17	T		.02	.10					
WEST LAHAI 931	A	3.75	.20	*	.57						*	*	.03	.30	.25	.20	.28	*		.30	.21	1.02	.21	*	*	.09		.09						
ISLAND OF OAHU																																		
AIKA FIELD 625 761	A	2.51	.03	*	.20								.37	.05	.07	.37	*	*	.02	.61	.12		.06	*	*	.61								
BERETANIA PUMPING STA	A	2.97	.04	.10	.26	T		.02					.49	T		.46				.06	.47	.43		.06	*	.58	T							
CAMP 84 807	A	3.75			.38			.01					.50		.11	.83				.36	.40	.31	.11			.74								
CHURCH COLLEGE LAIE	A	2.20	.10		.53	T							.04	.04	.23	.22	.08	.18		.06	.16	.33	.01		.23	.03								
COCONUT ISLAND 840.1	A	2.26	.02	.01	.22								.05	.07	.16	.25	.05			.38	.29				.68	.08								
EWA PLANTATION 741	A	3.16	.10	.20	.43								.51		.08	.24	.08	.08		.67	.26		.01		.36	.14								
HELEMANO INTAKE 881	A	4.39	.02	*	.90	*					*	*	.15	*	*	.90	*		.95	*			.98	*	*	.49	*							
HOKULOA 725.2	A	5.51			.56	*			</																									

DAILY PRECIPITATION

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Continued

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF MOLOKAI																																	
KALAPAPA 463	A	6.11			.15				.40				.22	1.09		1.09	.49		.08		2.00	.52						.47					
KANAKAKAI 536	A	4.67				.25								.37		.68				.43		2.04						.50					
KLOHELE BEHS 551	A	4.35		.35											1.12					.84		.36	1.68										
KUALAPU 534	A	7.85		.14		.26			.05	.68				.20	1.01		1.18			.68		2.40		.68				.57					
MAPOLEHU 542	A	8.41	.34		.08				.22				.27	.20	.19	.77	.50	.13				3.00	1.74				.97						
MAUNALO 511	A	5.22		.11		.19		.32	.57					.25	.02		.75			.47		1.26		.88				.40					
MOLIKAI AP 524	A	9.75	1.42	.10	.04	1.02	T	.07	.88	.06	T	-		.08	.80		.02		1.29	.44	T	1.27	1.05	T			.30	T					
PUUOHOKU RANCH 542.1	A	12.90				.70		1.50		.31				1.25				.98		4.36		3.00	2.03			.19	6.59						
WAIKOLU 540	A																																
ISLAND OF LANAI																																	
KANEPUU 690	A	7.61						1.19								.99								4.63								.80	
KANALAPAU HARBOR 658	A	4.93		.25		.80		.14		.07						.76																.13	
LANAI CITY 472	A	8.34		.41	.01	.51	.39	.01						.31	T	.04	.88			1.02	T	1.71					.76						
LANAIHALE 684	A	2.90						1.10								.45															1.35		
MAHANA 694	A	8.49																													8.49		
MAHANA 676	A	6.99						1.40								.57								4.67								.35	
WAIKAEKUA 685	A	7.13				.49							.64							1.95						4.05							
ISLAND OF MAUI																																	
AUNAHU-252	A	15.15													2.50	.25				8.20										4.20			
HALEAKALA R C S 434	A	5.48		.07	.04	.08	.32		.50	.32				.01	.15		.33	1.42	.73			.16	1.22					.13					
HALEAKALA RANCH 432	A	5.62		.08		.12			.66	.08				.02	.18		.53	1.44	.82				1.58					.31					
HALEAKALA GS 338	A	14.76	T	.16	.02	.05	.01	T	.60	.06				.35	.05		2.35	2.67	4.65			.19	3.04	T			.56						
HALEAKALA SUMMIT 338.4	A	9.47	T	.27	.05	.12	.10	.20	.28	T	.05			.29	.20		.44	1.53	.40			.04	2.20	3.00	T	T	.28	.02					
HALLIHALE 423	A	5.54		.08		.26			.67	.07				.03	.23	.06	.44			2.01		.86					.83						
HAKAUPOKO 485	A	4.34		.14	.02	T	.99	T	.76	.01	.01			.02	.01	.16	.33	.24				1.28	.03	.01			.11	T					
HANA 354	A	5.31		.07		.46			.45	.02				.28	.14	.28		.24		.02	.05	T	1.19	.03		.06	.02						
HANA AIRPORT	A	2.93	.44	.09	.09	.20	.03	T	.30	.54			.10								.11	.28	.03	.20	.10	.05	T					.02	
HANAHULI 281	A	9.53	.03	.31	.40	.05	T	.09	.38	.05	.01			T	2.60	2.70	1.05	.28	.03	.01	.02	.09	.66	.01	1.04	T	.03	T					
HOLUA CABIN 259.5	A	8.28											.67			.25					3.75										3.61		
HONOKOHU 480	A	12.00													.02	.01	.16	.33	.24												12.00		
HONOKOHU 493	A	6.12		.15		.02			.97	.05				.26	.37	.03	.58			.43		.78	1.90				.58						
HONOHU GULCH 341	A	9.40																													9.40		
KAHUNA INTAKE 374	A	12.50		2.15						1.55													8.80										
KAHULUI #B AP	R	5.19	.12	T	.01	.34	T		.41	T			.01	T	.03	.80	.18	.48		.04	.01	2.33		T		.42							
KAILILI 436	A	6.34																														6.34	
KAILUA 446	A	3.71	.02	.22	.01	.08	.26		.74	.22	.01			.01	.28		.03	.21	.42			.10	.93	.01	.11		.05						
KAHULA INTAKE 375	A	8.70		.07	.02	.01	.01		.37	.78	.07				.02	.20	.01	.58	.79	.76			.10	2.28		T	.03	.29	T				
KEAHUA 410	A	6.39																															
KEANAE 346	A	2.70																														2.70	
KEANAE BEACH 260.2	A	6.44		.06		.15		.35	1.03					.02	.02	.01	.42	1.51				.26	2.20	.01			.42						
KIHEI 311	A	10.48		.15		.25		.05	.14					.21	.47		.48	3.91	.70			.34	2.16			.46	1.12	.04					
KIPAHULU 258	A	8.33		.10	.05	.01	.48		.05	.54	.09			.02	.07	.01	.91	2.37	1.51			.11	1.74				.27						
KULA HEIGHTS 323.2	A																																
KULA SANATORIUM 267	A	15.93	.01	.19	.01	.11		.19	.72	.10				.09	.10	.05	2.47	4.65	3.41	.04		.24	3.05		.01	.01	.48						
LAHAINA 361	A	5.68		.12		.05	.11		.07	.42				.02			.67	.63	.41			1.48	1.31				.50						
LAHAIPOKO INTAKE 376	A	12.00																															
LAHAIPOKO VILLAGE 372	A	8.23		.12		.08		.30	.50					.43	.09		.41	.82	.50			3.60	.66	.05			.77				12.00		
LUPU UPPER 442	A	4.10																														4.10	
MAHINAHINA 466	A	8.15		.16		.05		.05	.25					.12	.04		.60	1.24	.70	.05		1.27	2.80	.17			.65						
MAHOLE - FLE 60-497	A	6.80		.23				1.11									.257										3.06						
GLINDA 332	A	7.89	T			.45	.01	.03	.60	.41				.06	.08	T	1.29			.406	T	.11					.22	.42	.02				
OLOHALU 296	A	6.06		.14	.03	.04		.38	.75					.10		.03	.18	.46	.15			.65	2.80	.12			.23						
OLOHALU GULCH 377	A	10.20																														10.20	
PAKEA 350	A	4.00	.06	.23		.20	.11		.32	1.49	.06				.02	.03		.12	.19			.63	.06	.40			.13						
PAIA 406	A	4.77		.11	.02	.01	.98	T	.18	.65							.34	.40	.25			.06	1.62	T	T		.10						
PAHLEHULU 259.2	A	21.90		.10					.51	.10							.01	.09		.74		.13		.80									
PAHLEHULU 495	A	3.34		.10		.74		.08	.46					.12		.01	.08										.08						
POHAKA BRIDGE 307.2	A	8.88		.10		.03	.16		.12	.96				.12		.27	.08	.87	1.51	.55	.01	.23	3.15	.02			.05	.65					
POLIPOLI SPRINGS 267.2	A	27.92						1.08							1.90							21.72										27.92	
PUUOHOKU 2 363	A	14.00																														14.00	
PUU X KUI HAKAI 472	A	6.51		.12		.22			.74	T				.12	.02	.03	.66	.82	.31			.02	.22	2.56			.67						
PUUENE 396	A																																

DAILY PRECIPITATION

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Station		Total	Day of Month																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAMUELA 192.2		7.31			.48	.33			.32	.12					.28	.06	.62	.02	1.87		.02		1.90	.06	T	.06	.67		.48	.02			
KAMUELA AIRPORT		6.18		T	.48	.20	T		.54	.02	T				.30	.03	.72	.01	1.55		T		1.20	.06	T	.04	.45	T	.51	T			
KAPAPALA RANCH 36	A	7.67	.35	.20		.08		.40	.10	.08	.02	.10		.07	.30	.03																	
KAPONO LANDING 935	A	17.20		.34	.44																												
KAMUANA 88.1		6.96		.01	.55	5.62	.01					.01									.37		.28	.01		.11	.96		.60	.70			
KAWAINUI LOWER 193	A	8.14		2.78						.82							.82																
KEAAU 92		13.60	.07	.07	3.32	8.42	1.02	.02		.15	.03																						
KEALA'AKEUA 26.2		2.94	.05	.01	.44	.17	T		.09	.02	.01					.02		.21		1.64					.04	.18	.02		.32	.04			
KEHENA 181.2		11.69																										.01					
KEHENA RESERVOIR 176.1	A	6.55	.01				.36	.02		.51	.15			.01	.02	.35		1.10			1.96				1.28	.02			.72	.02			
KIOLAKAA A + F 6	A	3.29																															
KIPIA 89.2	A	10.81		.09	1.35	5.33				.09	.83																					3.29	
KOHALA 179A	A	4.83	.10	.18			.25	T	1.10		.15			T		.14	.93			1.21			.27	.16		1.11	.07	.12					
KOHALA MAULILI 176	A	7.17		.52			.42			.60	.43					.14	1.17			1.97			.82	.19				.32		.04			
KOHALA MISSION 175.1		6.48	.05	.19	.08	.17	.05	T		.62	.13	T				.17	1.31	.04	1.60	T			1.13	.06	.42	.01	.42	T	.03	T			
KOIAWE LOWER 196	A	5.74		1.85						.58							.54							2.77									
KONA AIRPORT 68.3		3.19		.69	.27					.01	T					.01	T	.63	.01	1.45								.05					
KUKAIUA 222		3.63		.40	.31	.16				.18	.44	.15				.17							.30	.20				1.30	.02				
KUKUIHALE PIC 199		2.35		.02	.20	.11	.02			.11	.50					.04	.05		.65				.58	.05						.02			
KUKUIHALE MILL 206	A	1.61				.23				.06	.36			.02			.01					.38				.45	.07			.01			
KULANI CAMP 79		3.43	.01	.01	.37	1.46	.34	.01	.01	.37	.08	.01					.01					.04				.09	.29	.06	.04	.01	.10	.03	.09
KULANI MAUKA 76	A	1.17		.42	.66					.04																							
KULANI SCHOOL SITE 78	A	3.07								.04																							
LANIHUA 68 C		5.05		.75	.27					.18						.07	.73		2.14							.85	.06	.14				.16	
MANUKA 2	A	2.66				1.56	.08	T	T	.05			T							.63						.16		.03		.15			
MAUNA KEA BEACH		3.33		.36	.09					1.17						.07	.06	.35	.14	.42						.71	.06		.04				
MAUNA LOA SLOPE OBS		1.54		.36	.64	.04																											
MIDDLE MAULALO 68.1	A	4.31		1.31				.11										.64	1.22	.35			.36			.61		.07					
MIDDLE PEN 147.1	A	3.83																											.17				
MOAULA 18	A	10.35																				2.55		1.11								10.35	
MOUNTAIN VIEW 91		11.41		1.58	3.94	.45			.23	.58						.02				.83				.86	2.06	.02	.29	.47	.05	.03			
NAALEHU 14	A	3.98		1.94	1.00	.08	T	.04	T	.04				.04	T					.01		.05	T	.24			.15	.06	.01	.32			
NAPPOPOO 28		2.58				.56														1.88									.09				
NAULU FOREST 38.6	A	12.29		.02	3.55	4.45	.85	.06	.08	T	.12																						
NIULII 179	A	4.06	.01	.12		.24				.38	.68					.10	.47		1.08				.81					.12					
OOKALA 223		3.38		.58	.88	.03	T			.03	.30	.12	.01			.18	T					.10	T	.16	.03		.87	.09	T	T			
OPIMAHLE 2 24.1	A	1.98	T	.15	.39	T			.01	.05																							
ORCHIO LAGO EST 91.5	A	14.73		2.91							11.24					.02		.01	.89	.01				.20		.02	.57		.04	T	T		
PAKUNAU 217		1.88		.20	.13	.01				.08	.71	.02				.01										.39	.09		.17	.03	.04		
PAUULO 221		2.82		.07	.30	.02				.21	.39	.18				.10										.80	.09		.62	.03	.01		
PAHALA 21		10.65			2.60	.05			.12	3.37												.01		.02	.01	.15	.34	.02	.05	1.37	.07	2.47	
PANAMA 65		8.84		1.70	.32	.53		.02			.26																						
PAKAO 37	A	9.07																															
PAPAIOU 144.1		13.37		.26	1.22	8.49		.05	.01	.54		T	T								1.27			.19	.09	T	.86	.32	.07		9.07		
PAPAIOU MAUKA 140.1		14.82		.06	1.82	7.02				1.87	.02										1.24			.18	.19	.06	2.25	.04	.06	.01			
PEPEEKO MAKAI 144		10.71		.07	3.07	5.39	.02		.40	.05	.06					.03				.19			.20	.12		1.01	.02	.07	.01				
PIHONUA 89		8.60																															
POHAKULOA 107	A	1.76		.03		.59				.03																							
PUAKO 95.1		2.71		.52	.08					.54																	1.09		.02			8.60	
PUU KIH 120	A	2.27													.02	.08		.43		.36						.60	.06		.02				
PUU LAU 102.1	A	3.15																															
PUU LEHUA 73	A	3.60																														3.15	
PUU MALI 113	A	2.07																														3.60	
PUUKUMAU 167	A	9.02	.02			.54	.01		1.09	.17			.01	.32	.02	2.11		1.94		.04	.02		1.34	.29		1.10	.02	.01			2.07		
PUU OO 82		2.61		.01	.40	1.27	.05	.04	.02	.20								.03					.10	.37	.01				.02				
PUU WAHAA 94.1	A	4.86				.97		.02	.45	.05	.20				.13		.11		.20								2.53		.20	T			
SAOOLE ROAD 184	A	7.20		1.17							4.90						.07										1.06						
SOUTH POINT CORRAL 3	A	2.45		1.14														.07											.15	.25			
UMIKOA 118		2.43		.14	.28		.02	.03	.46	.44	.10				.17														.32	.22	.11	.04	
UPULU POINT USC&G 159.2		6.06		.16	.10				1.18						.15		.47	.38	2.01				1.42						.19				
WAIKAE 500 86.2		6.78		.02	1.77	5.46	.06	.02												T	.30		.18	.03	.58	.20	.06	.10					

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150TH MERIDIAN TIME				Trace	01-09	10-49	50-99	100-199	200 and over	Total		
							2 AM	8 AM	2 PM	8 PM									
HILO, HAWAII, WR AIRPORT	1R	1.0	7.2	22	SE	20	86	74	66	83	3	8	2	0	1	1	15	42	5.6
HONOLULU, OAHU, WR AIRPORT	22	3.2	6.0	32	SW	15	82	81	65	76	6	2	4	2	0	0	14	75	4.5
KAHULUI, MAUI, WR AIRPORT	19	4.1	9.1	30	SW	15	92	91	75	88	5	5	6	1	0	1	18	60	4.6
LIHUE, KAUAI, WR AIRPORT	23	6.2	9.6	38	SW	20	92	89	68	64	6	7	2	1	0	1	17	63	4.7

DAILY TEMPERATURES

HAWAII
FEBRUARY 1968

Station		Day Of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX	66	65	66	68	68	69	68	64	64	64	63	62	67	62	60	58	56	63	62	63	61	61	67	64	59	65	62	67	62		63.7		
	MIN	44	44	46	45	42	40	38	53	42	42	47	55	47	47	57	51	52	54	53	58	56	45	41	45	55	44	47	52	51		48.0		
KILAUEA POINT 1133	MAX	75	79	75	81	81	81	84	80	74	76	79	82	85	84	85	78	76	83	82	85	78	80	83	84	80	81	81	81	79		80.4		
	MIN	65	62	62	67	66	65	62	65	64	64	63	61	62	67	63	66	64	62	64	68	62	61	55	64	62	60	65	66	69		63.7		
LIHUE WB AIRPORT	MAX	76	76	75	77	77	76	76	76	73	75	78	75	75	79	78	73	77	79	79	81	78	74	76	79	81	74	78	81	78		76.9		
	MIN	57	60	62	60	58	60	57	60	57	56	61	65	63	64	68	61	61	58	67	71	59	58	57	58	60	57	58	68	63		60.8		
MAKAHUEA POINT	MAX	81	79	79	79	82	82	82	82	83	82	81	82	80	83	82	79	79	79	83	83	85	80	80	82	84	81	80	83	85		81.4		
	MIN	62	65	65	65	63	63	63	65	64	61	65	64	68	67	67	68	69	63	70	71	68	63	63	63	65	60	62	72	68		65.2		
MANA 1026	MAX	78	78	79	82	80	80	81	80	78	78	78	81	78	82	83	80	78	75	78	80	78	78	78	77	80	83	77	80	81		79.3		
	MIN	62	59	64	65	63	59	63	64	61	63	65	64	63	65	67	63	64	63	63	70	68	60	61	56	58	61	59	61	62		62.6		
NIU RIOGE 1035	MAX	75	76	78	80	78	80	80	79	75	77	78	77	75	80	78	77	76	75	77	77	75	74	77	78	78	76	76	76	77		77.1		
	MIN	59	60	63	63	60	60	59	60	59	60	61	59	60	64	62	60	60	59	64	65	60	59	60	60	60	57	59	65	63		60.7		
WAIAMI LOWER 1054	MAX	77	78	78	78	78	80	81	79	78	79	79	76	79	78	78	78	78	80	81	80	81	82	80	80	84	84	80	77	77		79.2		
	MIN	53	58	58	56	53	55	51	55	51	50	55	56	60	58	66	64	58	55	66	67	65	53	53	52	64	66	52	53	59		57.3		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX	81	81	79	81	83	83	82	82	80	79	81	80	81	80	77	77	80	80	79	82	78	83	84	82	81	79	81	82	81		80.7		
	MIN	59	61	63	62	59	58	60	59	60	58	58	61	63	60	62	66	67	60	63	69	70	60	61	60	61	60	59	61	61		61.4		
HONOLULU W8AP 703	MAX	82	80	82	79	80	82	81	82	80	77	81	82	80	82	80	78	80	79	79	81	79	80	82	82	83	79	81	82	81		80.6		
	MIN	64	66	68	66	66	64	68	63	63	62	64	68	66	66	69	68	69	64	71	73	68	63	64	65	69	62	64	68	65		66.1		
HONOLULU SUBSTA 704	MAX	78	79	79	79	80	81	78	81	77							76	77	77	77	79	77	78	79	80	79	75	78	78	78		78.3		
	MIN	65	67	68	66	68	67	66	66	66							69	66	69	73	69	67	68	68	68	68	66	67	70	69		67.6		
KAHUKU 912	MAX	78	78		79	79	78	79	78	78				84	83	78	83	81		80	86	87	82	78		81	77	83	81		80.6			
	MIN	61	62		60	60	62	60	60	62				56	61	58	59	66		63	67	68	61	61		59	58	59	60		61.0			
KANEHOE MAUKA 781	MAX	79	78	79	78	78	79	80	79	79	76	79	77	77	69	78	77	76	78	78	76	79	79	78	78	81	82	76	79	82		78.1		
	MIN	61	64	66	65	64	65	66	65	64	61	61	64	66	67	68	70	71	66	67	74	71	65	65	65	66	62	62	65	65		65.6		
MAKAPUU POINT 724	MAX	75	75	77	76	80	77	77	75	75	75	76	76	78	80	77	72	75	76	77	76	75	75	78	74	77	78	74	78	79		76.3		
	MIN	67	67	67	71	69	66	70	69	65	66	66	67	68	68	68	69	69	68	69	70	66	72	67	66	69	68	65	69	70		68.0		
OPAELUA 870	MAX	78	76	75	76	78	79	79	78	75	77	75	78	77	75	78	72	74	72	77	76	78	72	77	68	80	76	76	79	79		76.2		
	MIN	56	59	60	60	56	56	56	58	57	58	55	65	62	61	63	63	65	60	63	66	67	58	57	60	59	59	58	60	58		59.8		
PRI WAIHANA 820+2	MAX	80	80	80	76	82	81	83	80	78	76	80	79	75	79	80	77	72	76	79	77	80	76	82	83	82	82	80	80	80		79.1		
	MIN	56	60	61	60	57	55	55	56	56	54	56	53	60	57	57	65	65	60	67	67	69	59	57	57	64	56	56	59	57		58.8		
WAIALUA 847	MAX	80	80	79	79	79	80	79	78	79	76	78	76	82	78	81	82	78	79	83	85	84	80	77	78	86	79	75	82	80		79.7		
	MIN	57	62	63	65	61	56	56	58	59	58	57	60	60	58	59	66	67	65	63	62	70	59	59	60	59	62	58	61	60		60.7		
WAIKIKI 717+2	MAX	82	82	82	84	82	84	84	82	85	82	80	83	82	82	84	81	79	80	83	80	83	79	85	84	83	82	83	84			83.4		
	MIN	60	63	62	65	63	60	67	59	59	57	60	66	64	62	66	68	69	63	67	70	70	61	63	62	70	58	60	59	62		63.3		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX	77	75	79		78	79	80	77	78	77		77	78	78	78	77	72	73	76	77	78	75	76	76	79	76	77	73	80		76.9		
	MIN	64	64	66		66	62	63	62	63	57		67	65	64	60	66	66	69	67	67	70	66	68	66	70	64	63	64	62		64.9		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX	78	79	79	79	78	77	75	79	76		74	75	75	75	71				75	75	76		76			79	77	77	78		76.5		
	MIN	62	61	63	63	64	65	65	58	60		57	60	60	62	61				60	62	66		61			57	59	59	56		61.0		
ISLAND OF MAUI																																		
HALEAKALA R5 338	MAX	57	52	58	60	59	58	57	54	56	56	58	57	60	55	59	56	55	49	59	59	62	54	58	60	57	61	58	62	63		57.6		
	MIN	37	38	39	47	39	37	38	44	39	40	40	47	44	41	44	44	44	42	49	49	46	41	46	44	44	45	45	47	49		43.1		
HALEAKALA SUMMIT 338+4	MAX	45	45	44	46	51	51	51	46	48	47	50	51	50	42	52	43	43	44	51	45	42	44	50	51	51	47	67	50	58		48.4		
	MIN	35	36	38	35	33	31	36	35	35	34	36	31	33	32	31	38	38	32	38	40	32	39	30	35	33	34	37	40	48		35.3		
MANA AIRPORT	MAX	78	77	79	78	79	80	81	78	78	77	79	79	83	81	84	86	83	81	82	84	83	74	80	80	82	85	76	80	83		80.3		
	MIN	63	63	65	65	65	65	67	62	62	59	61	59	64	59	60	66	68	66	64	63	66												
KAHULUI W8 AP	MAX	77	78	79	80	79	80	74	79	76	76	78	74	76	79	78	78	76	78	79	80	74	78	79	80	78	77	80	81	81		78.2		
	MIN	60	60	63	67	64	66	65	61	59	55	56	62	62	58	68	68	66	64	66	66	67	65	64	59	69	62	60	64	58		62.7		
KAILUA 446	MAX	75	74	77	78	79	78	78	78	78	79	79	78	82	82	78	82	83	82	83	86	83	83	83	81	83	85	74	77	80		80.0		
	MIN	59	58	59	60	61	59	62	61	60	55	55	55	55	55	58	58	58	59	58	60	64	63	61	57	58	57	58	62	61		58.9		
KULA SANATORIUM 267	MAX	66	64	69	71	65	69	71	71	72	66	67	70	71	71	69	66	78	61	69	75	79	81	6										

Continued

DAILY TEMPERATURES

HAWAII
FEBRUARY 1968

Station		Day Of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF HAWAII																																	
HAINA 214	MAX	75	78	77	75	78	78	80	80	76	73	75	76	80	78	81	86	82	81	83	83	82	82	82	80	78	83	73	80	81	79.2		
	MIN	59	56	60	59	63	63	64	64	60	56	57	58	65	63	60	64	60	66	61	61	64	63	61	59	61	64	61	66	63	61.4		
HAWAII VOLCNS NP HO 54	MAX	66	64	65	63	64	68	64	69	66	62	67	68	66	69	69	73	73	65	69	72	73	65	65	71	69	64	68	71	67.4			
	MIN	49	48	53	56	52	54	53	53	54	46	47	51	47	50	45	45	49	54	55	50	58	56	50	53	52	52	57	58	51.7			
HILO WB AIRPORT	MAX	82	84	73	84	81	85	90	79	80	80	81	86	85	84	83	86	86	87	83	92	86	87	87	86	86	91	80	85	83	89	84.3	
	MIN	62	64	69	68	66	67	66	70	66	64	60	61	62	65	63	64	62	69	63	65	66	69	64	66	64	70	68	68	66	65.4		
KAINALIU 73B	MAX	75	74	74	73	77	78	79	77	77	75	75	77	79	76	75	77	78	73	79	83	80	81	78	79	78	76	78	80	80	77.3		
	MIN	59	57	62	62	60	63	64	61	59	58	60	57	58	60	59	60	63	63	60	62	66	65	63	63	62	62	62	62	62	61.2		
KAMUELA 192.2	MAX	73	74	74	74	76	75	76	75	74	70	75	71	72	72	73	72	72	70	73	76	78	75	78	77	77	78	75	73	77	74.3		
	MIN	50	44	47	50	50	53	57	58	56	46	48	44	47	55	54	56	57	56	54	47	50	54	56	50	53	56	51	54	49	51.8		
KAMUELA AIRPORT	MAX	71	70	68	74	74	75	70	70	69	70	73	74	71	71	73	70	70	71	74	75	76	74	76	75	74	75	74	72	75	72.6		
	MIN	40	39	43	48	50	45	44	48	45	43	50	51	46	47	49	45	51	52	54	45	41	49	54	51	51	48	56	56	50	48.0		
KEAAU 92	MAX	81	79	81	81	81	81	83	85	80	83	83	83	84	83	82	84	89	89	89	89	89	89	84	87	87	87	81	84	83.9			
	MIN	60	61	65	65	65	65	63	62	65	58	58	58	60	60	62	63	63	63	63	61	62	67	63	61	61	61	65	65	68	62.5		
KEALAKEUA 26.2	MAX	77	74	74	75	79	80	80	79	77	78	77	78	79	77	79	79	79	77	80	75	82	80	79	80	79	77	79	80	82	78.3		
	MIN	60	58	63	62	62	63	64	62	61	60	61	59	60	62	60	61	63	63	62	59	59	58	58	58	63	62	62	63	64	61.1		
KOHALA MISSION 175.1	MAX	77	76	78	77	80	78	79	79	78	75	77	79	80	80	81	78	78	78	81	84	83	81	80	81	78	79	79	82	79	79.1		
	MIN	62	61	60	64	64	64	67	66	64	60	61	62	67	65	66	65	68	66	64	64	64	66	66	64	65	66	65	67	63	64.3		
KONA AIRPORT 68.3	MAX	81	80	79	76	80	82	81	82	78	80	81	80	83	83	81	82	81	76	80	83	83	83	80	83	82	82	83	84	84	81.1		
	MIN	61	64	64	63	64	67	66	68	64	64	66	65	66	64	64	66	64	64	65	64	69	69	66	67	65	66	68	68	66	65.4		
KULANI CAMP 79	MAX	60	60	65	66	65	64	68	62	55	64	55	66	66	66	65	69	70	68	68	72	68	73	65	66	70	67	69	69	65.7			
	MIN	40	42	52	44	46	46	46	52	45	38	39	39	41	42	42	43	43	43	42	47	52	48	46	44	42	43	46	48	55	44.7		
MAUNA KEA BEACH	MAX	82	81	78	78	83	86	85	85	81	84	81	83	83	81	81	84	81	80	86	90	87	83	86	84	85	82	84	87	87	83.4		
	MIN	65	64	66	66	67	68	70	68	65	69	65	64	66	66	69	67	68	66	67	66	70	68	67	66	67	67	68	72	67	67.0		
MAUNA LOA SLOPE OBS	MAX	40	41	43	45	47	47	49	50	46	47	50	48	48	55	48	51	43	52	58	57	55	48	48	51	52	53	62	60	58	50.1		
	MIN	27	30	34	34	29	30	31	31	30	30	32	33	32	37	35	34	31	36	39	40	38	34	34	34	37	38	41	41	38	34.1		
MOUNTAIN VIEW 91	MAX	78	76	75	73	77	78	78	80	74	71	75	79	80	80	78	79	82	80	77	81	83	82	75	80	78	80	70	75	79	77.7		
	MIN	52	53	58	62	63	57	59	59	60	53	54	53	52	54	55	53	54	61	58	58	58	63	58	57	58	63	59	58	63	57.4		
NAALEHU 14	MAX	77	78	78	80	80	81	81	80	77	77	79	79	79	81	80	79	79	80	80	83	83	81	77	77	81	81	79	78	79	79.4		
	MIN	65	67	67	65	65	66	63	63	64	64	61	61	61	63	62	61	61	62	62	66	68	68	66	66	65	65	63	64	68	64.2		
OOKALA 223	MAX	78	77	78	75	79	79	81	80	78	74	78	80	81	78	82	82	82	81	82	82	80	82	83	82	80	83	75	82	83	79.9		
	MIN	54	57	56	56	60	60	62	62	61	56	57	60	58	57	58	57	56	58	62	62	60	62	62	60	60	60	68	59	58	59.4		
OPIHIHOLE 2 24.1	MAX	77	74	72	76	66	73	77	76	74	75	75	77	75	76	78	80	77	80	80	85	83	76	79	80	78	78	78	80	78	77.0		
	MIN	56	57	59	58	58	60	58	57	56	56	53	53	56	57	57	56	57	57	58	58	62	61	60	57	58	60	60	60	60	57.8		
PAHALA 21	MAX	78	78	76	71	76	81	79	80	76	77	78	78	79	80	79	84	84	86	83	81	83	77	75	81	78	81	73	77	79	78.9		
	MIN	58	61	63	62	63	62	63	63	60	57	59	59	58	58	59	60	61	57	60	61	64	66	64	62	64	64	64	64	64	61.4		
UPOLU POINT USCG 159.2	MAX	80	81	80	80	82	82	82	82	82	81	82	80	82	82	82	81	80	77	81	85	85	81	81	82	82	82	82	86	82	81.6		
	MIN	65	67	66	67	68	67	69	69	67	66	66	61	68	66	69	67	66	66	68	68	72	67	69	68	69	69	68	70	69	67.5		

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WB AIRPORT	EVAP	.15	.20	.13	.32	.22	.15	.17	.21	.23	.17	.21	.23	.05	.17	.22	.35	.20	.30	.25	.21	-	.28	.19	.25	.16	.23	.23	*	.49	6.18E		
	WIND	42	78	59	84	74	70	75	84	60	64	80	118	68	61	200	163	153	106	126	155	237	61	57	65	77	61	65	*	203	274.6		
	MAX	77	82	80	80	83	82	84	83	84	78	81	81	79	82	82	81	74	80	82	83	84	82	85	85	84	85	83	-	87	81.9		
	MIN	58	60	60	60	58	58	57	57	58	56	55	60	63	62	64	58	59	58	57	65	66	58	57	57	57	56	55	-	57	58.8		
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.11	.12	.13	.16	.15	.15	.12	.14	.15	.14	.11	.15	.08	.12	.17	.09	.11	.12	.14	.08	.19	.08	.06	.15	.16	.20	.15	.16	.16	3.85		
	WIND	20	19	13	16	15	13	16	12	20	18	8	25	13	10	32	28	19	41	19	25	33	15	11	14	16	27	7	9	9	523		
	MAX	86	87	89	89	92	91	91	91	87	87	89	89	82	89	92	85	81	89	92	85	92	82	88	94	95	92	92	94	96	89.2		
	MIN	64	64	66	68	65	64	63	64	63	61	64	63	67	66	66	68	67	66	66	70	62	64	65	65	65	64	64	65	67	65.0		
* * * ISLAND OF HAWAII																																	
HILO WB AIRPORT	EVAP	.20	.07	-	.04	.16	.17	.17	.05	.23	.08	.23	.21	.23	.13	.21	.22	.17	.20	.22	.35	.17	.09	.17	.19	.28	.00	.24	.16	.29	5.11E		
	WIND	49	71	71	60	30	52	75	54	72	60	60	66	54	48	53	63	65	74	51	104	74	42	44	80	106	95	40	57	78	1848		
	MAX	76	78	74	79	83	85	85	80	80	85	85	84	85	80	87	86	84	85	90	88	86	82	82	85	92	76	86	87	88	83.5		
	MIN	61	61	67	65	66	68	65	68	65	62	62	60	59	62	61	62	61	67	64	63	63	70	64	65	62	69	67	67	68	64.4		

INDEX

OBSERVATION TIME AND TABLES												OBSERVATION TIME AND TABLES													
STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP	PRECIP	EVAP	SPECIAL	OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP	PRECIP	EVAP	SPECIAL	OBSERVER
ISLAND OF LANAI																									
KAUAI RES. 983	01405	02	KOLOA		21 57 159 32	1610		7A				MC BRYDE SUGAR CO.	KANEPUU 690	A 31301	01	LAHAINA		1 20 53 157 00	1640		W1				DOLE COMPANY
KALANANAKU 1111	01405	01	KAWAHAI		21 29 159 19	1116		7A				LMH PLANTATION CO	KALANAPALU HARBOR 658	A 31301	01	LAHAINA		1 20 47 157 00	30		W1				DOLE COMPANY
KALANANAKU STA 985	02405	02	KOLOA		21 57 159 32	1610		7A				MC BRYDE SUGAR CO LTD	LAHAINA 528	A 31301	01	LAHAINA		1 20 47 157 00	30		W1				DOLE COMPANY
KALANANAKU STA 985	02405	02	KOLOA		21 57 159 32	1610		7A				MC BRYDE SUGAR CO LTD	LAHAINA 528	A 31301	01	LAHAINA		1 20 47 157 00	30		W1				DOLE COMPANY
KALANANAKU STA 985	02405	02	KOLOA		21 57 159 32	1610		7A				MC BRYDE SUGAR CO LTD	LAHAINA 528	A 31301	01	LAHAINA		1 20 47 157 00	30		W1				DOLE COMPANY
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STATION INDEX

HAWAII
FEBRUARY 1968

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER
								TEMP	PRECIP	EVAP	
ISLAND OF HAWAII											
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A		PUNA SUGAR CO
NAALEHU 14	6588	03	KAU	3	19 04	155 35	673	8A	8A		HUTCHINSON SUGAR CO
NAPOOPOO 28	6697	04	S KONA	4	19 28	155 55	395	7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400	VAR			HAWAII VOLCANOES NAT PK
NIULII 179	6806	01	N KOHALA	1	20 14	155 45	75	6A			KOHALA SUGAR CO
OKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A		LAUPANOHUE SUGAR CO
OPINIMALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A		MISS C LEONARD
ORCHID LANO EST 91.5	7185	02	PUNA	2	19 34	155 00	445	VAR			BOARD OF WATER SUPPLY
PAAHU 217	7204	01	HAMAKUA	1	20 05	155 26	415	7A			PAAHU SUGAR CO
PAUFILO 221	7312	01	HAMAKUA	1	20 03	155 22	800	7A			HAMAKUA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A		HAWAIIAN AGR CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670	6A			PUNA SUGAR COMPANY
PAKAO 37	7643	03	KAU	3	19 22	155 28	5000	MO			HAWAIIAN RANCH CO. INC.
PAPAIOU 144.1	7711	02	S HILO	2	19 47	155 06	400	7A			MAUNA KEA SUGAR CO
PAPAIOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270	7A			MAUNA KEA SUGAR CO
PEPEKEO MAKA 144	8000	02	S HILO	2	19 51	155 05	100	7A			PEPEKEO SUGAR CO
PIHONUA 89	8051	02	S HILO	2	19 44	155 10	1730	MO			STATE DIV OF FORESTRY
POHAKULOA 107	8063	02	HAMAKUA	2	19 45	155 32	6511	VAR			STATE DIVISION OF PARKS
PUAKO 95.1	8186	05	KOHALA	5	19 59	155 30	5	6A			ERWIN W. RAPP
PUN KIME 120	8393	01	HAMAKUA	1	19 54	155 24	7750	MO			KUKIAU RANCH CO

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shows following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above and-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

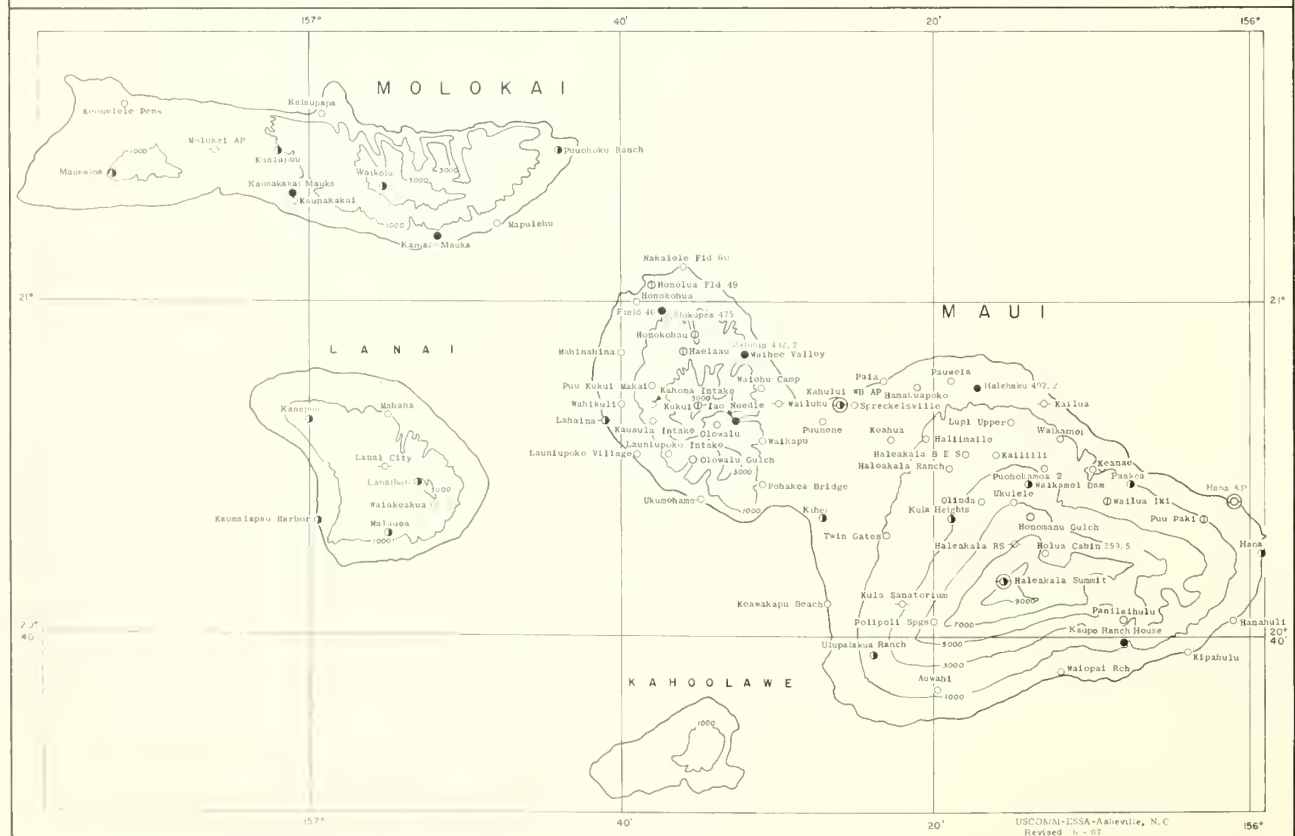
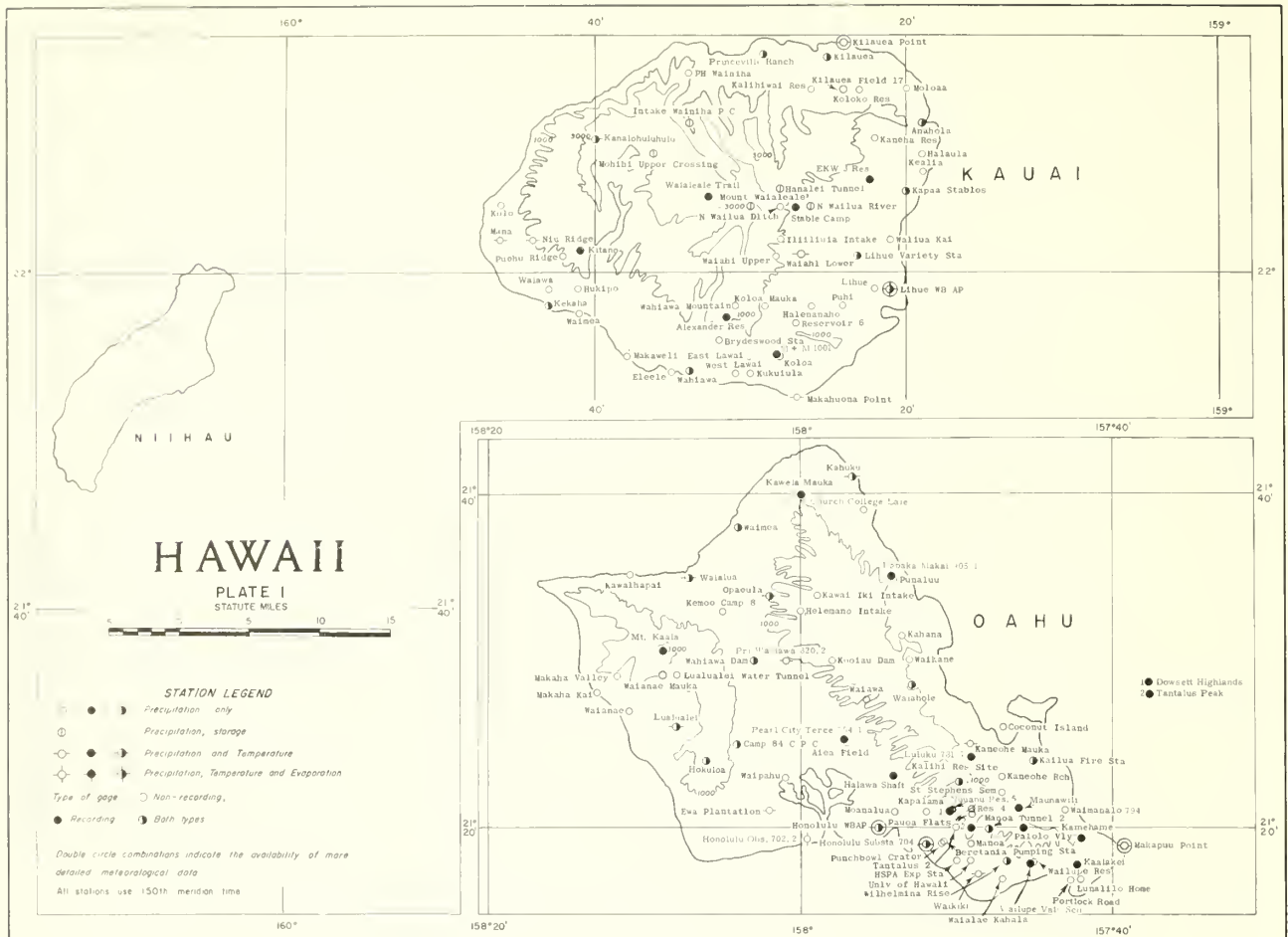
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

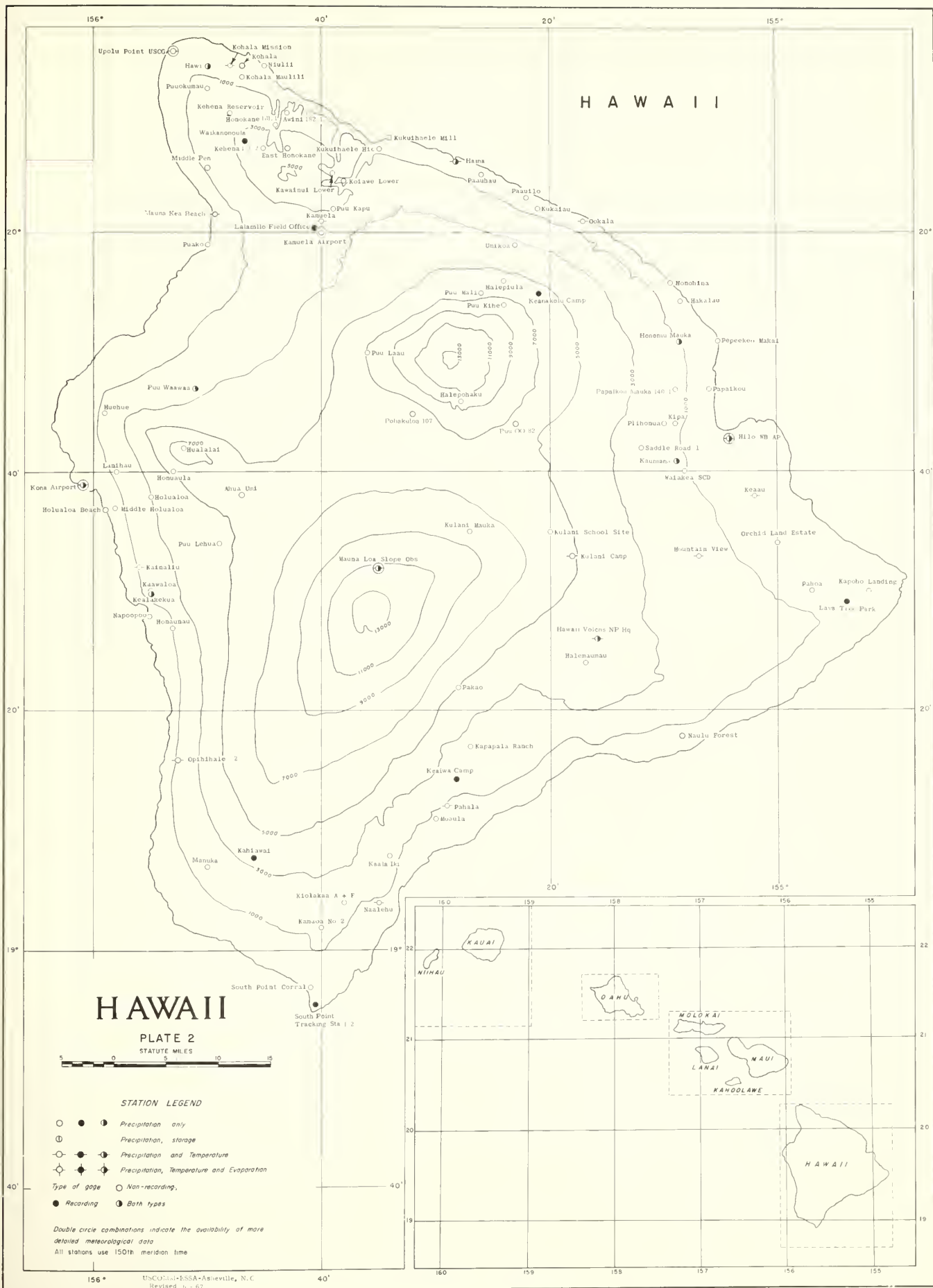
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCEN-ESSA-ASHVILLE-6/29/68-890







CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE

C. R. SMITH, Secretary

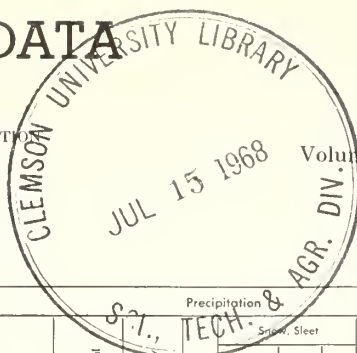
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

MARCH 1968

Volume 64 No. 3

CLIMATOLOGICAL DATA



Station		Temperature										Precipitation & Snow, Sleet																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days					Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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CLIMATOLOGICAL DATA

CONTINUED

HAWAII
MARCH 1968

Station	Temperature										Precipitation																
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.		Min.						Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										30° or Below	31° or Below	32° or Below	0° or Below														
ISLAND OF HAWAII																											
HALEAKALA 214	77.3	63.0	70.2	.7	83	12+	60	9+		0	0	0	0	20.47	11.91	5.81	19	.0	0		16	11	8				
HAWAII VOLCANO NP HO 54	66.7 ^M	52.4 ^M	59.6 ^M	1.7	73	7	46	5+		0	0	0	0	6.62	- 5.36	1.31	24	.0	0		17	4	1				
HILO WB AIRPORT	81.2	67.8	74.5	3.9	88	1	63	2		0	0	0	0	10.21	- 4.49	1.26	14	.0	0		17	8	2				
HUEHUE 92A														3.54	- .17			.0	0								
KAINALIU 73B	77.0	62.7	69.9		81	10	54	17		0	0	0	0	2.05	- 3.23	.32	28	.0	0		7	0	0				
KAMUELA AIRPORT	71.8 ^M	51.2 ^M	61.5 ^M		78	18	42	22		0	0	0	0	3.61		.84	19	.0	0		11	1	0				
KEAAU 92	80.9 ^M	64.5 ^M	72.7 ^M	2.4	87	4+	61	4+		0	0	0	0	12.10	- 3.48	1.60	23	.0	0		19	9	4				
KEALAKEKUA 26.2										0	0	0	0	1.86				.0	0				0				
KEHENA RESERVOIR 176.1														22.20				.0	0								
KONA AIRPORT 68.3	81.8	68.6	75.2		84	27+	64	16		0	0	0	0	1.70		.54	15	.0	0		6	1	0				
KUKUIHAELE HIC 199														25.39	15.35	6.50	16	.0	0		20	16	7				
KULANI CAMP 79	63.7	45.9	54.8		70	4+	36	7		0	0	0	0	6.93		1.08	29	.0	0				1				
MAUNA KEA BEACH	84.7	69.2	77.0		91	31+	53	24		2	0	0	0	.26		.10	1	.0	0		1	0	0				
PAHALA 21	78.9	63.5	71.2	2.3	83	22	60	22+		0	0	0	0	4.89	- .69	1.09	19	.0	0		9	5	1				
POHAKULOA 107														3.02				.0	0								
PUAKO 95.1														.66		.35	23	.0	0		2	0	0				
PUU WAAWAA 94.1														6.80	3.59	4.98	15	.0	0				1				
UMIKOA 118																											
WAIKOA SCD 88.2														12.01		1.60	15	.0	0		19	10	5				
ISLAND			68.7											8.02				.0									

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 91° ON THE 31+ AT MAUNA KEA BEACH, HAWAII

LOWEST TEMPERATURE: 30° ON THE 30TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 62.41 INCHES AT PAAKEA 350, MAUI

LEAST TOTAL PRECIPITATION: .26 INCH AT MAUNAKEA BEACH, HAWAII

GREATEST ONE-DAY PRECIPITATION: 13.70 INCHES ON THE 15TH AT PAAKEA 350, MAUI

SPECIAL WEATHER SUMMARY

The weather event of chief interest was the return of the trade winds which, after having been almost totally absent since early in December, set in intermittently during the first days of March and then, from about the second week on, continued through the remainder of the month.

Also worthy of mention was the heavy rain that occurred during the middle of the month. Stationary low pressure in the upper atmosphere and at the surface to the west of the islands brought scattered downpours and local flooding from late on the 13th to the 16th, mainly on Oahu and Maui, where a number of stations reported 24-hour totals of 7 inches and above and 1-hour intensities of up to 3 inches.

On Oahu, Maunawili had over 12 inches of rain in the 24 hours ending at 4:00 a.m. on the 14th, while on the 16th heavy rains caused numerous mudslides and power failures and forced eight families in the Waialua area to evacuate their homes shortly after 5:00 a.m.

On Maui, Kahului Airport was swept by northerly gusts of 52 m.p.h. at about 5:00 p.m. on the 14th and by torrential rains whose intensities reached over an inch in 10 minutes, 2 inches in 20 minutes, and 3 inches in an hour. At Paakea, on eastern Maui, the rain totalled nearly 24 inches in the 48 hours ending at 9:00 a.m. on the 16th, and of this 3.3 inches fell in the single hour between 5:30 and 6:30 a.m. On western Maui, flooding was reported from Napili Beach and Honolua, and a car was reported to have been washed into a stream at Honokawai.

Other important weather occurrences in March included the large westerly swell which, late on the 2d or early on the 3d, apparently pulled a \$9,000 charter boat from its moorings in Keauhou Bay, Hawaii, and pounded it to pieces upon the shoreline rocks -- the third boat to be wrecked by seas or wind in that area within a month.

Waterspout sightings continued numerous. A pilot reported seeing 4 to 5 between Kahoolawe Island and Kona, Hawaii, at about 9:50 a.m. on the 7th, while at 7:45 a.m. on the 9th another pilot observed a well-defined funnel cloud about 30 miles southwest of Kailua Airport, Hawaii, extending to within about 500 feet of the sea surface from a cloud base estimated at 4,000 to 5,000 feet.

The month was unusually cloudy, with all four Weather Bureau airport stations reporting well under their mean percentages of maximum possible sunshine.

In terms of the percentage of normal, March rainfall varied widely. In general, the normally windward (eastern) coasts and mountain slopes of all the islands equalled or exceeded their monthly means, while leeward (western and southern) areas were well below normal.

As shown below, several long-period stations had their wettest March of record, while others had their driest.

Stations With More Rain in March 1968 than in
Any Previous March

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest March Total	March 1968
OAHU			
Manoa Tunnel #2	40	41.46	42.62
Pauoa Flats	40	38.12	43.86
MAUI			
Kailua	64	34.47	35.60
HAWAII			
Kehena Reservoir	25	15.43	22.20

HAWAII - MARCH 1968

SPECIAL WEATHER SUMMARY - CONTINUED

Stations With Less Rain in March 1968 than in
Any Previous March

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous March Minimum	March 1968
HAWAII			
Manuka	38	2.00	1.38
Napoopoo	27	0.71	0.67

Saul Price
Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

Russell Dorr
Acting Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
MARCH 1968

Station		Total	Day of Month																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																			
ANAMOLA 1111	A	4.00																																	
BRYCESWOOD STA 985	A	4.01	.05	*	*		.05		.01			*		.01	.03	.03	1.40	.45	*	*	1.49	.01	.03			*	*		.33	.15	.03	.03			
EAST LAWA 934	A	5.04	.01	*	*	*	.03	.01	.01					.13	.56	.16	.55	*	*	1.73		.11							.31	.01			.35	*	*
ELEFE 927	A	1.35	.03	*	*	*	.01							.28	1.04	.45	.64	*	*	1.21	.01	.09		.01	.01				1.18	.08		T		*	*
HALAULA 1110	A	4.32							.06					.05	.12	1.50	.60	*	*	1.47	.03	.05					*	*		.20	.12	.06	.06	*	*
HALENANAO 1006	A	7.91	.02				.18	.14			*	*	.04	.48	.92	.93	.89	*	*								*	*		1.14	.15	.04	.04	*	*
HUKIPO 945	A	.91	.01				.08									.31	.35																		
LIILILUA INTAKE 1050	A	16.10	.07	.02	*		.08	.80	.04	*		.03	.02	.85	2.42	1.88	.86	1.80	3.20	.87	.05	.18			.30	.54	.63	.48	.05	*		.73	.20	*	
INTAKE WAINIMA PC 1086	A	30.02					.15				*		2.55	1.10		1.32	.29	10.60	.39	*	1.56							9.36	1.78	*	*	.92	*	*	
KALIMIAI RES 1131	A	20.55	.01	*	*	*	.02	.31	.71	.01	*	*	.14	.74	1.35	2.87	.92	10.51	.42		.09	.05	.01	.05	*	*	*		1.27	.43	.20	.11	.33	*	*
KANALOHULULU 1075	A	6.94	.07	.60	.08							1.40		.10	.45	.23		.84	1.60	.15	.07				.12	.25	.09	.02			.04	.58	.25	*	
KANEHA RESERVOIR 1092	A	12.83	.05				.08	.30	.09	*	*	*	.28	.85	.78	2.00	1.02	*		.51	.12							1.10	.27	.45	.09	.08	*	*	
KAPAA STABLES 1104	A	6.06										*	.05	.06	.33	1.58	.70	*	*	2.47							*	.33	.15	.13	.05	.05	*	*	
KEALIA 1112	A	3.45					.02							.06	.13	1.30	.47	*	*	1.14						*	*		.17	.09	.03				
KEKAHA 944	A	1.16	.07	.05											.31	.30		.05	.05							*	*		.17	.09	.03			.28	
KILAUEA 1134	A	9.93		*	*	*	.05	.11	.35					.17	.40	1.71	.67	*	4.90	.60	.08	.04			*	*	*		.46	.17	.13	.02	.07	*	*
KILAUEA FIELO 17 1135	A	13.56	.01	*	*	*	.04	.35	.91	.07	*	*	.02	.44	.88	2.03	.79	*	5.54	.75	.04		.01	.04	*	*	*		.84	.21	.10	.03	.09	*	*
KILAUEA POINT 1133	A	11.12	.07	.06	.01		.05	.19				.12	.08	1.0	2.69	.67		4.19	1.66		.10	.01		.12	.05	.22		.20	.11	.14	.20	.08			
KOLO 1033	A	.93	.10				.19							.07	.12	.14	.20	.11																	
KOLOA 936	A	5.96	.08	*	*		.05	.05	.06	.05	*	*	.02	.48	.90	.65	.75	*	1.35		.02	.20			*	*		1.09	.19	.02					
KOLOA MAUKA 994	A	7.81	.10				.06	.13			*	*	.02	.54	1.04	.81	.79	*	3.09						*	*	*		.85	.11		.14	*	*	
KOLOKO RES 1137	A	12.27	.05	*	*	*	.04	.33	.86	.12	*	*	.15	.32	.63	2.14	.80	*	5.33	.05	.07			.01	*	*		1.12	.09	.06	.04	.06	*	*	
KUKULUA 995	A	2.19	.02	*	*		.02	T					.09	.26	.18	.54		*	7.78		.16	.30						1.57	.37	.11					
LIHUE VARIETY STA	A	9.84	.02				.04	.20		.02	*	*	.14	.31	1.19	1.46	.70	.24	3.50	.25	.06	.16	.01		.03	.29	.49	.05	.13	.11	.32	.12			
LIHUE 1020	A	6.53	.03	*	*	*	.03	.05	.04				.09	.09	.80	1.16	.60		2.92		.02	.10						.47	.10	.03					
LIHUE WB AIRPORT	R	7.25				T	.01				T		.05	.68	.66	.90	.10	3.51	.91	.09	.11		T	T	.15	.09	.10	T	T	T	T	T	T		
MAKAHUA POINT	A	2.44	.01	.02								.11	.26	.30	.85	.07	.13	.02		.13			.11	T		.02	.17	.22			.13	.02			
MAKAWELI 965	A	.82	.02										.05		.15	.37	.10	.05																	
MANA 1026	A	1.45	.27							.02					.26	.22	.02	.08	.56			.02													
MOHIMI UPR CROSS 1083	A	12.31	.08	.16						.08	.24	.16	.40	.24	.64	.40	5.27	.08	.56	.16					.80	.88	.80				1.20	.72			
MOLOAA 1145	A	4.15	.02					.02	.02		*	*	.01	.03	.04	1.08	.56	*	1.68		.01	.02			*	*	*		.53	.06	.01	.01	.05	*	*
NIU RIGGE 1035	A	1.13	.05												.03	.26	.20		.37	.10													.05		
N WAILUA DITCH 1051	A	18.22	.11	*	*	.05			.36	.09	.83	.05	*	.15	.98	2.36	2.05	.94	*	7.78		.16	.30					1.57	.37	.11					
N WAILUA 1115	A	26.40	.11	.19								.09	.31	1.58	2.05	3.90	.30	5.50	7.53	.55	.37	.22								.08	.76	.60	.20	*	
PRINCEVILLE RANCH 1117	A	18.79					.13	.19	.38			.26	.14	.55	.81	.34	.56		2.7	9.13	.31	.03	.03	.07	.26	.23	.41	.31	.05	.39	.52	.26	.04		
PUEHU RIGGE 1040	A	1.92	.16		.05									.12	.31	.28		.75	.03														.19		
PUNAHU 1013	A	6.90	.05	*	*	*	.05	.03	.05	.02	*	*	.05	.39	.83	.95	.84				.10								.79	.15	.04		.04	*	*
RESERVOIR 6 1004	A	6.31	.07	*	*		.06	.08					.02	.45	.84	.85	.73	*	1.79		.07							1.18	.12	.03					
WAIHANA 930	A	2.20	T	*	*		.03							T	.23	.12	.45	*	.42	T	.07							.06				.82	*		
WAIHANA MOUNTAIN 990	A	26.50				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	26.50	
WAIHAI LOWER 1054	A	11.27	.05				.08	.39	.11			.03	.67	1.51	1.63	.70	1.21	2.75	.28		.18				.16	.35	.41	.33	.03	.36	.04				
WAIHAI UPPER 1052	A	12.65	.15	.02			.10	.25	.05			.03	.79	1.89	1.62	.79	1.64	2.72	.28		.17			.30	.41	.35	.65	.05		.35	.07				
WAIHAI 943	A	1.11	.24	.02							*		.02	.07	.47	1.44	.66		2.17		.15														
WAILUA KAI 1065	A	5.37				.08	.04								.25	.32	.03	.10									.05		.20	.04	.03				
WAIHANA 947	A	.78		.03																															
WEST LAWA 931	A	2.65				.01						.07	.38	.16	.61	*	*	.72	T	.01	.01						.55	.02			.11	*	*		
ISLAND OF OAHU																																			
AIEA FIELD 625 761	A	6.40		*	*		.04	.05					.47	.18	1.19	.09	*	3.35		.01	.05												.35	*	
BERETANIA PUMPING STA	A	2.15				.03	T					.07	.11	.05	.45	.01	.48	.06	T					.03	.15	.07			.45	*	.10	.09			
CAMP 84 807	A	2.54				.04									1.04	.13		1.01																	
CHURCH COLLEGE LAIE	A	7.04			.09		.02	.14	.02				.04	.10	.27	3.15	.20	.76	.56	.03	.17	.03			.03	.23	.08		.01	.85	.04	.08	.07	*	
COCONUT ISLAND 840.1	A	10.08	.05	.04			.01	.14					.09	.35	.39	2.31	.52	1.05	.20	.06	.39	.05			.16	.24	.12		.82	2.93	.02	.06	.08		
EWA PLANTATION 741	A	2.10	.01										.03																						

HAWAII
MARCH 1968

Station

Day of Month

See reference notes following Station Index

DAILY PRECIPITATION

HAWAII
MARCH 1968

Continued

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KAMUELA 192.7	8.34	.02	T	.06	2.19	.18			.03					.32	.78	.38	.10		.42	.46	.18	.03	.34	.22	.80			.06	.27	.42	1.08			
KAMUELA AIRPORT	3.61	.02	T	.16	.36	.05	.02	T	.01	T				.15	.15	.49	.12	T	.84	.11	.02	T	.35	.09	.22	T	T	.07	.09	.15	.29			
KAPAPALA RANCH 36	4.63								.14		.44				.15			.50	.60	.03				1.05	1.60									
KAPOHO LANDING 935	9.03	.92	*	*					.87	*	*	*	*		1.96															2.27	*			
KAUMANA 88.1	12.13				1.03		.27		.01		.28			.08	.13	1.26	.94	.02	.01	.02	1.27	.10	.07	1.03	1.15	.33	.20	1.20	.20	1.04	.31	1.18		
KAWAIIU LOWER 193	52.31	.03	*	*	*	*	*	14.00	*	*	*	*	*		8.92							17.92	*	*	*	*	*	*		11.44	*	*		
KEAU 92	12.10			.72	.25			.05	.02		.49	.11		.07	.10	1.37	1.23	.12	.02	.14	1.26	.60	.02	1.60	.73	.38	.10	.37	.06	.87	.94	.48		
KEALAKEUA 26.2	1.86	.01			.07	.05				.15			.04															.72	.72	.01	.08	.01		
KEHENA 181.2	22.67																																	
KEHENA RESERVOIR 176.1	22.20	.02	*	*	6.76	.32		.01	.05	*	*	.02	.01	.02	.92	2.35	*	1.86	1.42	3.19	.26	.02	*	*	*	2.81	.34	.03	.68	1.11	*	*		
KIOLAKAA A F 6	5.30							*	*	*	*	*	*		5.60								9.35	*	*	*	*	*	*	*	8.14	*	*	
KIPA 89.2	16.05			.07	1.25	.42			.08	T	.43		.02	.05	.14	2.30	.43	.04	.08	.11	1.05	.20	.05	1.18	1.23	.19	.23	2.03	.15	2.25	1.18	.89		
KOHALA 179A	15.45				.29	.30							.01		.11	3.00	*	3.12	.02	.29	.11	.01	*	*	*	4.45	.90	.10	1.45	1.29	*	*		
KOHALA MAULILI 176	18.77				1.25	.81		.02	.02	*	*	.02		.05	.91	2.82	*	3.66	.22	1.58	.29	.02	*	*	*	4.28	.98	.23	.55	1.06	*	*		
KOHALA MISSION 175.1	17.83	T		.02	.34	.57								T	.22	3.06	3.70	.69	T	.58	.27	T	.24	3.87	.38	.97	.12	1.23	1.28	.16	.20	*		
KOJAWA LOWER 196	30.57							7.48	*	*	*	*	*		5.60								9.35	*	*	*	*	*	*	*	8.14	*	*	
KONA AIRPORT 68.3	1.70	.01		.12		.12	T						T		.54		.17	T	T				.32	.31				.01	.05	T	.05	*		
KUKAIUA 222	22.51			.32	1.29	.16									.47	.26	.06	.08	3.70	7.47	1.48	.11	.60	.88	.59	.05	.19	.42	.76	2.22	1.44	*		
KUKUHALE HIC 199	25.39			.78	2.03	.31			.11		.03			.03	.50	2.55	6.50	1.75	.87	2.43	.50	.02	.60	.88	.93	.20	.53	.10	.88	1.74	1.20	*		
KUKUHALE MILL 206	17.37				1.49	.16			.04	*		.07			.13	1.48	3.15	*	.43	1.02	2.15	.30	.04	*	*	1.90	.34	.30	.26	1.12	1.89	1.10	*	
KULANI CAMP 79	6.93	.03		.01	.41						.22	.20	.08	.09	.13	.67	.49	.13	.03	.19	.32	.20		.81	*	.80	.23	*	.70	1.08	.11	*		
KULANI MAUKA 76	7.13			.20	.05					.17	*			T	.03	.30	.06	.83	.23	.52	.02		.60	.90	1.17	.87	.02	.77	.20	T	.28	.15	*	
KULANI SCHOOL SITE 78	3.81										.95	*				1.24	.42	*	*														*	
LANIHAU 68 C	4.24	.30	*			.17	.33	T				.33				.29	*	.29		.04	.13	.04	.41	.22	.77			.55	.06	.15	.09	*		
MAUKA 2	1.38				.01			T				.12	T					.14		.07	.05	.04				.72	*	.03	.07	.13	*	*		
MAUNA KEA BEACH	.26	.10	T			.01											.05				.01			.04					.04	.01		*		
MAUNA LOA SLOPE DBS	3.60															.04	.22	.02	.46	.14	.09		.20	1.08	.24	.25	.05	.25	.22	.07	.02	.25	*	
MIDDLE HOLUALOA 88.1	1.95	.29			.06						.11					.07				.20			.10			1.02				.10		*		
MIDDLE PEN 147.1	.93	*	*	*		.13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.80	*	*	*	
MOAULA 18	4.00																															4.00	*	
MOUNTAIN VIEW 91	17.03				1.28	.45			.03	.02	.61	.14		.10	.05	1.49	1.21	.12	.02	.82	1.45	.44		1.44	.67	.33	.07	3.69	.20	.76	1.09	.55	*	
NAALEHU 14	4.18	T						.01	T			.51	T		.06	.31			.22	.61	T								1.14	.01	T	.68	.63	*
NAPOOPOO 28	.67																		.20														*	
NAUPOOPOO 14	3.74				.05	.01			.04	.01	.75	.04			.11	.16	.01	.06	1.23	T	*	*	.21	.59			.10	.04	*		.38	.04	*	
NAULU FOREST 38.6	3.74				.56	.47									.08	.43		.48	.02	.44	.10					.45	.62	.09	1.70	1.82	*	*		
NIULILI 179	19.53																																*	
ODKALA 223	18.12		.02	.22	1.03	.31	T				.07	T			.68	.13	.08	.03	4.00	2.95	1.34	.03	.54	1.68	.21	.08	.35	.58	.97	2.10	.72	*		
OPINIHOLE 2 24.1	2.80			.08	.04	T	.01				.01	.01	T	T	.02		.17	.11	.05	.01	.01	.12	.35	.21	T				.03	.01	.01	*		
ORCHID LANE EST 91.5	12.16	.59	*						.12	*					.18								.40							.56			*	
PAALU 217	16.69			.23	1.09	.07					.01				1.64	.22	.09	.01	3.44	2.88	.37	.01	.37	1.32	.22	.04	.72	.05	1.14	1.88	.89	*		
PAALU 221	20.57			.53	1.07	.07			.05		.01				.67	.18	.07	.81	4.38	5.43	.50	.11	.54	.90	.43	.05	.17	.07	.92	1.97	1.64	*		
PAHALA 21	4.89	.17							.84	T	.25	.06	.11	.22	.15	.77	2.79	.28	.03	.02	2.00	.60	.06	1.50	.69	.36	.03	.13	.10	1.58	1.56	.80	*	
PAMOA 45	16.05	.03	*		1.12	.72			.09																								*	
PAKAO 37	7.80	*	*	*																													*	
PAPAIIKOU 144.1	11.84			.54	.28			.01	.02	.21	.03	.07	2.22	.40	.07	.05																	*	
PAPAIIKOU MAUKA 140.1	16.57		.06	1.63	.30			.02	T	.50																							*	
PEPEKEO MAKAI 144	14.65				.38	.24			.02	.01	.36	*	.07	.03	.07	1.62	.20	.17	.02	.61	1.68	.54	.04	.53	3.20	.43	.31	.37	.10	1.08	2.17	.45	*	
PIIHONUA 89	17.60	*	*	*																													*	
POHAKULDA 107	3.02																																*	
PUAKO 95.1	.66	.07	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.05	*	*	*	*				.35	.05		.01		.10	.03	*	
PUU KIME 120																																	*	
PUU LAU 102.1	4.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.80	*
PUU LEHUA 73	1.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.80	*
PUU MALI 113		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PUUKUMAU 167	22.65	.21	*		.40	.47	.01	.01	.02			.03	.01	.12	1.26	2.53			1.66	.72	2.56	.33	.02	*	*		3.21	1.04	.03	3.13	1.25	*	*	
PUU 82	7.49		.01		.09	.03					.27	.12		.10	.19	.23	.61	.22	.37	.18	.17	.13			.48	.84		.42	.53	.71	.65	.56	.50	.07
PUU WAAHAA 94.1	6.80	.27	.09															.09	.16		.05													

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		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX	68	62	56	68	71	70	68	65	71	66	64	65	66	60	64	63	67	66	58	57	61	65	60	61	64	68	66	71	63	63	67	64.6	
	MIN	58	56	49	44	47	49	48	42	44	54	54	55	56	53	48	54	53	49	52	49	48	50	53	54	55	53	52	50	55	55	51	51.3	
KILAUEA POINT 1133	MAX	84	78	72	75	75	79	82	84	84	75	71	73	81	71	75	74	78	77	69	73	74	73	74	76	77	79	75	81	76	75	80	76.5	
	MIN	68	67	66	65	69	68	68	66	67	65	65	69	63	64	66	64	66	67	64	62	65	65	68	67	66	68	68	68	68	68	68	66.4	
LIHUE WB AIRPORT	MAX	82	78	70	75	77	79	78	78	79	77	76	71	74	69	74	74	76	74	70	71	74	77	73	75	76	77	75	77	77	76	77	75.4	
	MIN	67	63	63	67	69	68	64	61	61	68	67	67	66	62	69	66	65	62	63	66	66	69	66	67	68	69	68	64	68	70	68	66.0	
MAKAHUEA POINT	MAX	84	86	82	73	83	80	82	83	82	84	81	78	76	76	72	78	80	81	80	71	74	76	79	74	78	79	81	81	82		80	79.2	
	MIN	70	66	65	65	65	71	68	66	66	65	68	66	67	67	64	67	67	64	64	64	64	64	65	67	67	70	69	71		67	66.5		
MANA 1026	MAX	80	82	82	76	79	82	84	84	85	85	85	82	79	80	72	72	79	80	79	73	78	80	82	82	83	84	83	80	85	85	85	80.9	
	MIN	62	60	62	61	61	64	66	63	62	61	60	63	67	63	64	64	64	64	66	58	57	60	60	60	60	61	62	64	62	60	59	61.9	
NIU RIOGE 1035	MAX	78	80	80	74	80	80	81	80	80	80	82	80	75	77	77	78	77	77	77	70	77	78	78	79	79	80	80	80	81	80	80	78.5	
	MIN	63	64	65	58	60	64	62	64	65	63	60	63	62	60	60	60	60	60	62	56	53	56	59	60	60	60	60	61	62	63	60	60.8	
WAIAMI LOWER 1054	MAX	81	82	83	71	75	77	79	81	81	76	76	78	72	71	72	72	75	77	76	70	72	75	72	70	73	77	77	80	80	75	76	75.9	
	MIN	66	60	59	61	62	66	62	55	58	60	63	62	65	60	61	65	63	59	61	57	60	61	62	62	64	62	63	60	61	64	59	61.4	
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX	82	84	75	80	85	86	83	83	86	83	77	81	79	73	76	77	82	82	74	75	79	82	73	79	81	84	83	83	83	80	82	80.4	
	MIN	63	63	64	65	67	62	60	61	62	65	68	68	68	63	63	66	66	68	67	64	62	64	66	67	65	68	69	68	65	67	65	65.1	
HONOLULU WBAP 703	MAX	82	84	78	80	86	85	82	82	82	83	78	84	78	72	78	79	81	82	77	77	79	82	75	81	83	85	81	85	84	81	83	80.9	
	MIN	68	70	67	68	70	67	65	66	66	68	69	69	70	66	69	69	68	71	68	67	67	69	69	67	70	71	71	71	70	71	70	68.6	
HONOLULU SUBSTA 704	MAX	79	79	73	75	81	82	79	79	81	78	73	77	76	70	77	76	80	79	73	72	75	78	74	75	78	79	82	80	78	76	77	77.1	
	MIN	71	70	68	67	70	69	67	71	69	71	68	68	69	65	69	70	69	71	67	68	68	71	68	69	71	70	70	71	72	71	71	69.3	
KAHUKU 912	MAX	81			88	75	78	81	80		82	78	78	77	73					80	79	75	73											
	MIN	61			67	69	66	63	63		67	67	73	63	65					65	67	67	68											
KANEOME MAUKA 781	MAX	82	81	81	71	72	80	81	81	81	82	78	71	75	72	69	74	74	80	71	70	72	75	76	73	73	78	78	79	79	71	77	76.0	
	MIN	66	69	67	67	68	66	66	66	64	68	68	67	67	61	62	67	66	66	66	65	67	66	66	67	69	68	68	68	67	68	68	66.6	
MAKAPUU POINT 724	MAX	87	78	78	72	73	77	78	81	80	80	77	75	75	74	71	74	73	77	76	75	71	72	75	73	72	77	78	76	78	75	78	76.0	
	MIN	67	70	66	64	68	70	68	69	71	68	69	67	66	63	65	68	66	68	67	66	66	65	66	68	66	67	69	67	71	69	69	67.4	
OPAEULA 870	MAX	81	78	80	70	72	77	81	81	85	82	79	69	72	70	66	71	71	76	79	68	71	69	75	70	69	74	77	78	79	79	78	75.1	
	MIN	58	66	60	62	63	63	60	60	61	60	64	63	64	59	59	60	61	63	63	60	60	61	64	63	64	64	64	65	62	71	62	62.2	
PRI WAIHAWA 820.2	MAX	82	86	84	85	78	82	83	81	82	81	83	76	75	74	69	74	79	80	80	72	75	76	69	71	80	79	81	81	81			78.6	
	MIN	57	62	63	60	62	58	59	57	58	63	57	65	65	60	61	62	64	62	64	62	61	62	64	65	64	66	66	65	64			62.0	
WAIALUA 847	MAX	80	84	79	72	75	79	81	80	82	82	79	77	78	75	71	75	77	78	77	72	74	75	77	77	76	80	80	83	82	78		77.9	
	MIN	60	65	64	65	64	58	59	58	61	61	64	65	67	62	63	64	64	64	66	63	60	59	60	64	65	59	67	67	61	63	64	62.8	
WAIKIKI 717.2	MAX	85	84	84	81	83	88	86	87	87	86	86	81	84	78	74	79	78	84	86	79	80	78	84	77	81	85	86	85	87	85	83	82.9	
	MIN	69	66	67	67	69	63	62	65	64	65	70	67	68	65	66	69	67	66	69	66	66	66	68	68	69	70	69	70	70	68	70	67.2	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX	78	78	78	71	71	79	82	81	81	81	75	70	77	72	72	75	77	78	76	69	71	71	75	71	73	76	77	77	78	78	75	75.6	
	MIN	65	69	69	65	67	65	62	65	62	62	69	65	68	68	67	68	69	69	67	66	66	67	69	68	68	69	69	69	69	70	70	67.1	
ISLAND OF LANAI																																		
LANAI CITY 672	MAX	78			79	67	78	77	77		78	67	74	70	71		80	73	67	67			69			73		76	76	76	71	71	73.4	
	MIN	62			61	63	60	58	58		58	63	63	63	61	59		61	63	59	59			60			63		64	64	65	63	63	61.4
ISLAND OF MAUI																																		
HALEAKALA R5 338	MAX	69	61	67	64	70	69	70	62	64	58	63	62	64	63	53	54	55	59	58	62	66	67	57	54	59	56	57	58	60	60	53	61.1	
	MIN	45	40	43	49	49	45	45	43	38	42	43	48	44	47	45	45	47	46	47	47	43	44	45	46	44	44	45	47	46	45	43	44.8	
HALEAKALA SUMMIT 338.4	MAX	62	57	59	59	60	60	62	61	59	44	57	58	59	59	56	59	58	59	57	56	55	58	55	54	46	50	50	43	49	48	48	55.4	
	MIN	48	42	43	41	44	44	43	45	43	39	39	38	38	36	34	34	35	35	37	39	34	40	36	35	36	40	42	40	41	39	40	39.4	
HANA AIRPORT	MAX	83	81	82	76	80	80	80	83	82	83	82	76	80	76	76	77	79	80	75	72	74	79	77	73	77	79	80	81	79	80	79	78.7	
	MIN	64	62	66	71	70	69	68	71	65	70	68	68	68	70	65	68	69	68	67	64	68	68	64	66	67	66	70	70	72	68	67	67.6	
KAHULUI WB AP	MAX	83	82	75	75	84	81	80	81	83	79	78	82	77	75	77	76	79	77	77	74	78	81	75	80	80	80	82	80	82	80	79.1		
	MIN	64	65	66	66	63	60	60	59	58	63	68	66	66	64	64	67	66	69	67	65	65	59	67	67	67	68	65	67	68	67	66	64.9	
KAILUA 446	MAX	79	81	81	81	81	81	81	76	77	80	82	75	75	71	70	70	73	78	78	78	78	78	71	71	75	76	77	78	73	78	77	76.8	
	MIN	64	64																															

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		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF HAWAII																																	
MAINA 214	MAX	81	80	83	68	74	82	80	80	78	78	79	83	81	77	76	75	73	82	79	75	71	75	77	71	73	76	77	80	78	77	76	77.3
	MIN	63	62	64	64	62	60	60	60	60	61	62	66	64	64	64	65	64	67	66	62	61	62	64	64	63	63	62	66	64	63	62	63.0
HAWAII VOLCNS NP HQ 54	MAX	69	70	72	72	69	69	73	69	71	70	67	62	68	71	64		62	64	69	67	60	63	62	59	63	65	70	65	67	66	62	66.7
	MIN	47	46	46	53	46	47	50	51	49	55	52	52	53	55	56		54	58	59	56	49	50	50	52	55	54	58	58	56	53	52	52.4
HILO WB AIRPORT	MAX	88	87	80	80	86	85	86	85	83	85	84	84	85	83	78	78	85	84	75	74	79	75	74	76	79	83	84	78	78	79	78	81.2
	MIN	65	63	68	69	67	64	66	68	67	68	65	68	67	69	70	69	69	71	71	67	69	67	69	68	68	65	68	70	70	69	67	67.8
KAINALIU 73B	MAX	80	80	79	78	78	77	78	80	78	81	77	73	77	77	76	75	71	79	79	78	75	75	77	67	77	77	78	78	78	78	76	77.0
	MIN	61	59	63	61	64	66	62	62	61	62	61	62	63	65	63	65	54	65	66	67	64	62	62	63	64	63	65	64	65	60	61	62.7
KAMUELA 192.2	MAX	78	77	78	65	68	75	77	77	76	75	72	71	73	71	74	74	66	78	76	74	67	65	68	67	78	70	78	77	79	70	67	72.9
	MIN	52	58	56	57	52	52	47	50	50	52	55	58	59	57	58	58	57	58	58	58	54	55	54	58	58	56	56	58	60	60	57	55.7
KAMUELA AIRPORT	MAX	76	74	75	67	67	75	76	76	76	76	73	72	74	71		70	67	78	75	68	65	67	68	67	68	71	77	75	74	69	67	71.8
	MIN	51	50	51	56	54	51	52	50	50	50	58	57	54	53		53	53	54	53	54	47	42	45	48	49	45	45	48	57	53	54	51.2
KEAAU 92	MAX	86	87	87	87	77	83	83	83	84	84	84	80	83	83	82	82	82	82	85	74	72	78	75	75	75	78	81	81	76	79	79	80.9
	MIN	62	61	61	61	67	63	64	64	64	64	64	63	65	66	66	66	66	66	69	66	63	64	65	65	64	65	68	68	62	62	62	64.5
KEALAKEUA 26.2	MAX	81	81	80	80	78	79	79	80	79	78	73	71	71																77	72	78	73
	MIN	63	61	64	61	65	63	63	63	62	63	60	61	61																63	65	62	63
KOHALA MISSION 175.1	MAX	81	83	82	70	74	79	80	80	78	81	79	78	79	77	75	75	72	81	74	72	69	75	77	71	84	74	74	78	78	76	76	76.8
	MIN	64	64	65	67	64	64	64	64	65	66	67	67	67	66	65	66	65	68	69	64	62	66	65	65	65	66	66	66	66	65	65	65.5
KONA AIRPORT 68.3	MAX	83	83	80	79	84	84	84	84	81	84	81	82	81	83	84	80	78	81	84	84	82	82	82	74	79	82	84	82	82	82	81	81.6
	MIN	70	68	66	68	69	70	68	69	67	68	66	70	69	70	69	64	67	69	70	71	70	70	69	68	69	69	70	68	70	68	68	68.6
KULANI CAMP 79	MAX	70	60	65	70	65	65	69	66	65	67	65	58	65	63	62	61	60	62	69	66	67	65	58	61	59	60	64	63	63	62	61	63.7
	MIN	42	42	41	42	45	38	36	43	41	38	38	46	49	48	52	49	50	52	50	45	49	51	44	47	45	48	49	53	53	48	48	45.9
MAUNA KEA BEACH	MAX	86	85	85	89	85	84	86	86	85	91	87	87	85	83	81	83	81	84	84	88	86	85	82	77	82	84	85	80	82	87	91	84.7
	MIN	67	69	71	69	68	69	67	70	69	69	68	71	75	72	72	73	69	72	72	71	69	67	68	53	69	68	72	69	70	70	68	69.2
MAUNA LOA SLOPE OBS	MAX	56	54	57	59	60	58	56	55	55	54	54	56	53	45	48	41	49	48	47	54	46	41	40	43	45	48	43	43	46	51	50.1	
	MIN	40	38	40	40	40	39	36	38	36	37	37	35	34	36	35	34	37	38	35	37	35	34	35	34	36	35	36	36	33	30	32	36.1
MOUNTAIN VIEW 91	MAX	80	80	80	70	73	78	80	78	78	76	75	77	77	79	76	73	72	79	80	69	65	72	68	67	72	72	76	73	72	71	70	74.5
	MIN	56	56	60	63	59	55	55	57	58	61	57	58	58	60	62	61	61	63	63	61	57	57	59	61	60	60	60	62	62	60	59	59.4
NAALEHU 14	MAX	80	80	81	81	80	80	80	80	80	80	80	78	79	80	79	79	82	82	82	79	78	78	78	79	79	77	80	75	78	78	80	79.4
	MIN	66	66	64	64	67	66	66	67	67	65	65	67	67	67	67	67	67	67	69	66	64	65	65	65	65	68	68	66	66	66	61	66.0
OOKALA 223	MAX	82	80	82	80	77	83	80	81	80	85	82	81	82	80	79	74	75	81	80	70	70	77	76	71	73	77	77	79	77	75	78	78.2
	MIN	66	65	68	67	67	66	65	64	66	65	67	68	67	67	67	67	67	68	67	65	63	65	65	66	66	65	65	67	65	65	64	66.0
OPIHIHALE 2 24.1	MAX	80	78	75	78	79	79	79	80	76	78	75	73	75	77	75	71	81	78	76	73	75	77	68	74	77	75	75	79	81	74	75	76.3
	MIN	57	57	59	60	61	61	59	58	58	58	58	59	60	61	64	63	64	64	65	65	60	62	61	62	61	61	63	64	58	59	58	60.6
PAHALA 21	MAX	77	81	80	81	81	79	80	80	79	80	78	78	78	80	79	78	82	80	82	81	81	83	77	70	77	77	80	74	78	77	77	78.9
	MIN	60	61	60	63	63	61	61	63	64	62	61	60	62	64	66	65	65	67	67	66	60	60	65	65	65	66	66	67	67	63	64	63.5
UPOLU POINT USCG 159.2	MAX	84	83	83	74	77	82	83	83	82	83	82	82	82	81	82	76	77	83	83	78	78	78	79	78	75	78	80	81	81	79	79	80.2
	MIN	71	69	68	67	68	68	69	68	67	69	69	70	69	68	68	69	69	69	69	67	66	66	68	67	67	69	70	71	68	67	68	68.3

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
LIHUE WB AIRPORT	EVAP	.19	.22	.24	.28	.18	.14	.25	.20	.22	.15	.29	.18	.14	-	.16	.17	-	.35	.16	.13	.25	.30	.28	.11	.27	.25	.28	.13	.18	.34	.24	6.718
	WIND	103	93	88	190	145	113	62	60	69	72	159	227	221	147	157	228	178	56	106	183	266	235	189	220	227	211	177	70	122	218	215	4807
	MAX	83	87	86	73	76	81	86	85	88	81	81	73	70	73	66	73	74	68	78	75	71	75	78	72	79	82	84	79	88	83	81	79.0
	MIN	63	63	60	58	57	66	65	60	60	60	64	64	65	62	62	64	64	64	63	59	62	58	63	64	64	63	64	65	66	65	62	62.5
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.15	.06	.15	.24	.11	.19	.17	.17	.16	.20	.21	.13	.15	.10	.06	.09	.11	.13	.14	.15	.25	.22	.15	.06	.17	.20	.23	.11	.11	.27	.20	4.84
	WIND	12	11	60	50	32	19	10	17	18	22	39	48	52	37	42	30	26	21	46	61	80	48	30	43	41	44	40	16	20	56	48	1099
	MAX	95	90	95	81	86	93	96	94	94	96	89	84	88	82	74	77	80	92	88	79	82	84	85	75	85	89	92	87	88	92	90	87.2
	MIN	66	68	64	63	64	68	66	66	66	67	68	68	68	66	65	66	68	61	68	63	60	62	66	67	66	67	68	70	68	68	66	66.0
ISLAND OF HAWAII																																	
HILO WB AIRPORT	EVAP	.25	.26	.08	.02	.30	.23	.16	.32	.15	.20	.18	.24	.24	.24	.11	.02	.25	.11	.02	.04	.20	.06	.05	.12	.07	.11	*	.06	.28	.06	.10	4.53
	WIND	94	58	116	44	63	72	99	100	74	68	49	65	83	82	77	23	96	51	133	156	87	33	28	12	19	27	43	43	116	147	95	2253
	MAX	88	87	75	82	88	85	85	85	86	87	87	87	86	81	76	74	85	83	74	73	79	71	71	71	78	85	80	76	82	85	81	81.1
	MIN	60	67	67	67	67	62	64	64	62	68	63	66	66	68	68	68	67	67	68	68	64	63	63	63	64	70	66	68	70	70	66	65.9

STATION INDEX

HAWAII
MARCH 1968

STATION										OBSERVATION TIME AND TABLES										STATION										OBSERVATION TIME AND TABLES									
INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL							
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STATION INDEX

HAWAII
MARCH 1968

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII												
HOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
HAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395	7A				KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400	VAR				HAWAII VOLCANOES NAT PK
NIULI 179	A 6806	01	N KOHALA	1	20 14	155 45	75	6A				KOMALIA SUGAR CO
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A				LAUPAHOEHOE SUGAR CO
OPHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCIDI LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445	VAR				BOARD OF WATER SUPPLY
PAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415	7A				PAUHAU SUGAR CO
PAUJULO 221	7312	01	HAMAKUA	1	20 03	155 22	800	7A				HAMAKUA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670	8A				PUNA SUGAR COMPANY
PAKAO 37	7643	03	KAU	3	19 22	155 28	5000	MO				HAWAIIAN RANCH CO, INC.
PAPAIAKOU 144.1	7711	02	S HILO	2	19 47	155 06	200	7A				HAUNA KEA SUGAR CO
PAPAIAKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270	7A				HAUNA KEA SUGAR CO
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100	7A				PEPEEKEO SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730	MO				STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511	VAR				STATE DIVISION OF PARKS
PUAKO 95.1	8186	05	KOHALA	5	19 59	155 50	5	6A				ERWIN H. RAPP
PUU KIIHE 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750	MO				KUKAIAU RANCH CO

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-NO INTRA-ISLAND DIVISIONS LANAI: 1-NO INTRA-ISLAND DIVISIONS MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII"

DIMENSIONAL UNITS Unless otherwise indicated, dimensional units used in this bulletin are Temperature in F, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS for all stations are climatological standard normals based on the period 1931-1960

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates.

++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data

* Amount included in following measurement, time distribution unknown

A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month

H Adjusted to a full month.

J "Supplemental Data" table

M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record

R Amounts from recording gage.

T Traces, an amount too small to measure

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as a delayed data in the June issue of this publication.

SS Observation time is near sunset

VAR Observation time is variable.

W Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

* Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building

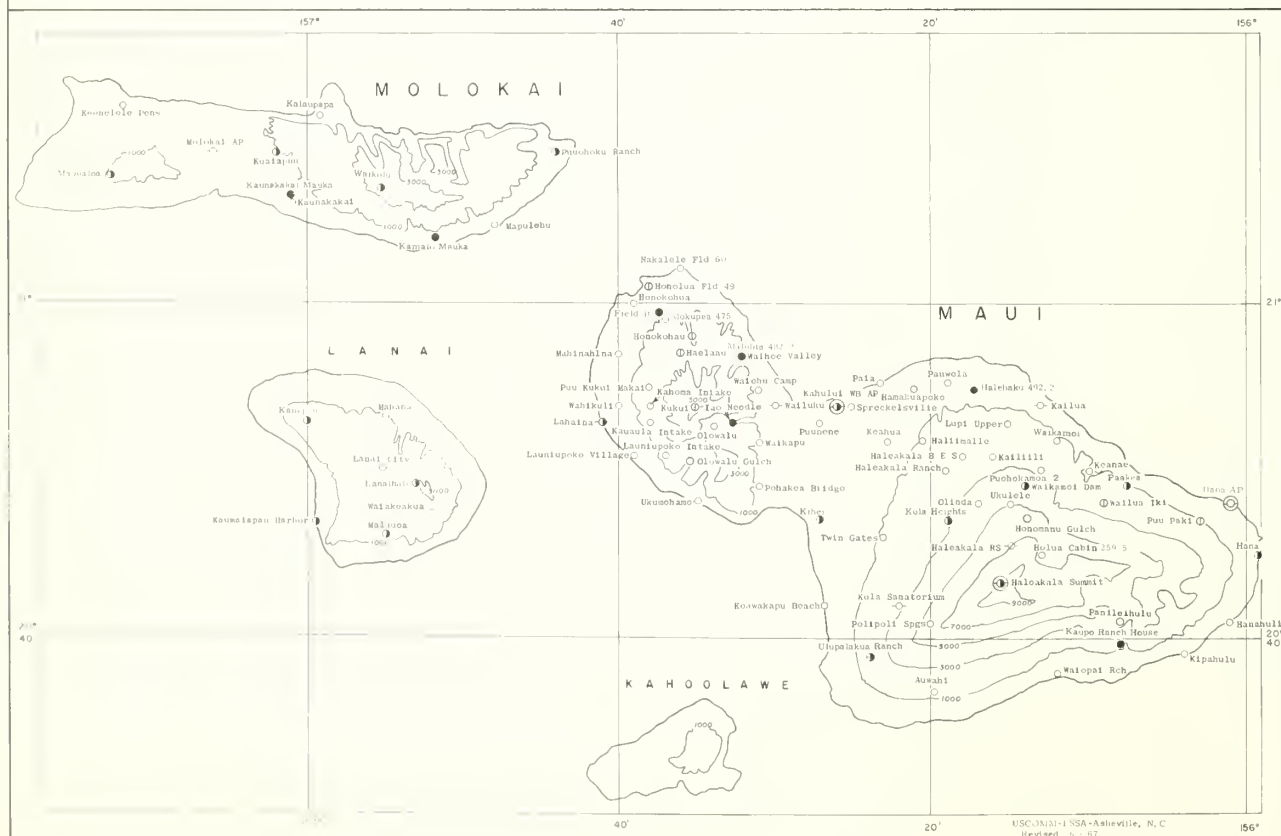
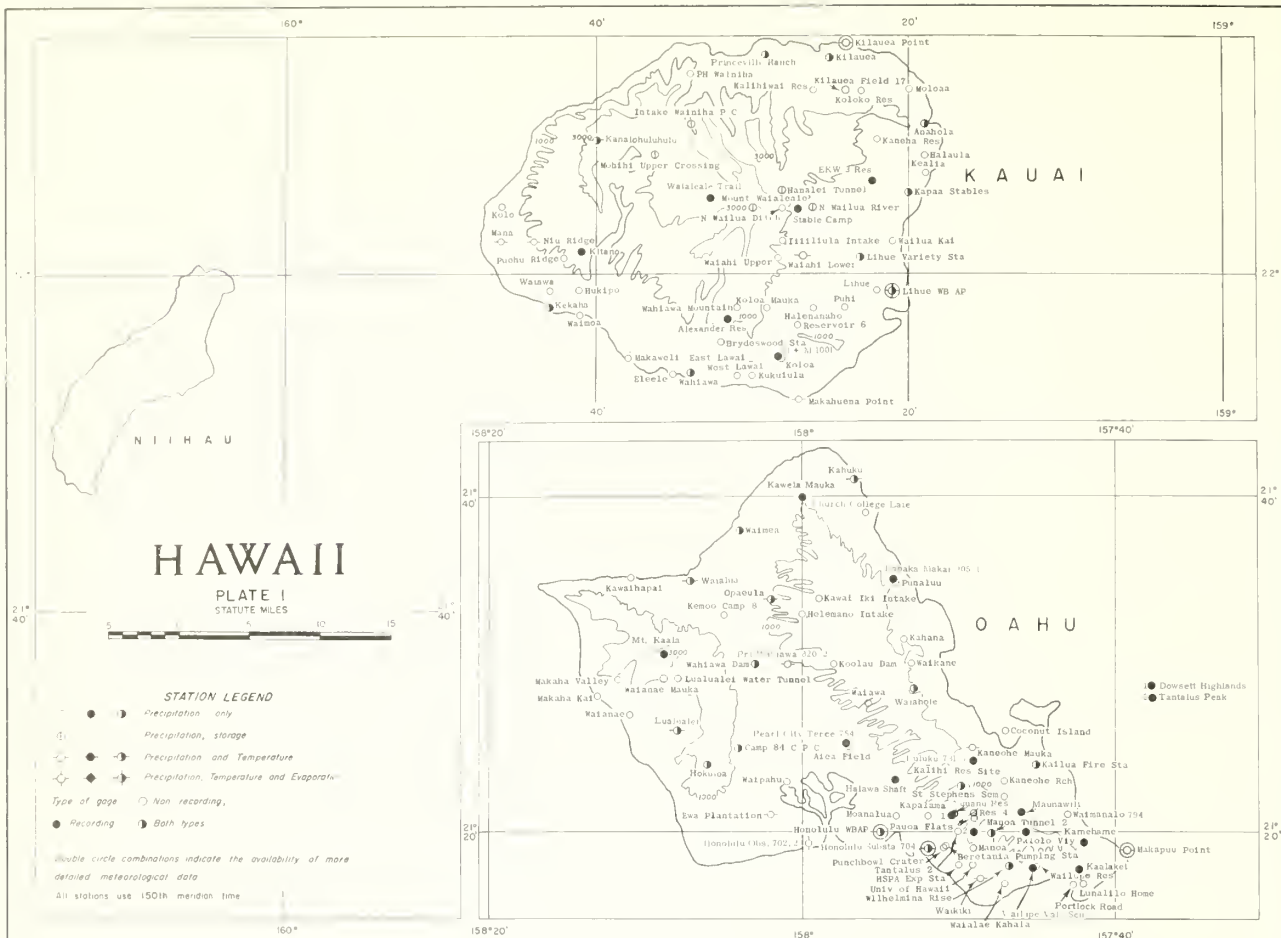
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Resubscribe and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE-6/28/68-800



156°

40'

20'

155°

HAWAII

20°

20°

40'

40'

20°

20°

19°

19°

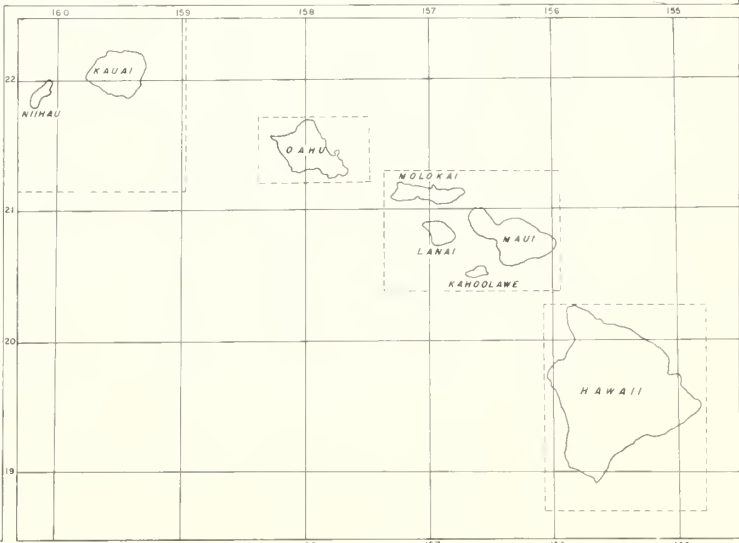
HAWAII

 PLATE 2
 STATUTE MILES


STATION LEGEND

- ● ● Precipitation only
- ⊖ ● ● Precipitation, storage
- ● ● Precipitation and Temperature
- ⊖ ● ● Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording, ● Recording
- Both types

Double circle combinations indicate the availability of more detailed meteorological data
 All stations use 150th meridian time



156°

40'

20'

155°

 USCOMD-ESSA-Alexandria, VA
 Revised 6-67



CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
C. R. SMITH, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

APRIL 1968

Volume 64 No. 4

AUG 1965

CLIMATOLOGICAL DATA

Station		Temperature										Precipitation													
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet		No. of Days				
											Max.	Min.	Total	Max. Depth on Ground					Date	.10 or More	.50 or More	1.00 or More			
* * * ISLAND OF KAUAI																									
ANAOHOLA 1111 A		68.1	51.1	59.6		72	18+	42	6		0	0	0	0	8.77	2.66			.0	0					
KANALOHULUHULU 1075 A															8.68		3.48	9	.0	0					
KAPAA STARLES 1104 A															9.13				.0	0					
KILAUEA FIELO 17 1135 A															11.03	3.22			.0	0					
KILAUEA POINT 1133 A		79.0	68.3	73.7		85	24	60	9		0	0	0	0	7.43		2.12	19	.0	0		14	5	2	
KOLOA 936 A															4.43	-.30	.76	25	.0	0					
LIHUE W8 AIRPORT R		78.1	66.7	72.4	-.1	81	20+	58	11		0	0	0	0	1.84	-1.50	.50	19	.0	0		3	1	0	
MANA 1026 A		84.6	64.1	74.4	1.7	88	30+	59	3		0	0	0	0	.97	-.28	.52	20	.0	0		4	1	0	
N WAILUA DITCH 1051 A															17.08				.0	0					
PH WAINIHA 1115 A															9.76	-2.51	1.81	20	.0	0		17	6	4	
PUEHU RIDGE 1040 A															2.49		1.15	22	.0	0		5	2	1	
WAIHAWA 930 A															2.60	.68	1.12	23	.0	0					
WAIHAI LOWER 1054 A		78.3	62.1	70.2		81	16+	55	7		0	0	0	0	7.31		.91	20	.0	0		19	5	0	
WAIHAWA 947 A															1.07	-.06	.63	24	.0	0		3	1	0	
ISLAND				70.1											6.47				.0						
* * * ISLAND OF OAHU																									
HONOLULU OBSERV 702.2 R															3.31		1.26	17	.0	0		8	3	1	
HONOLULU W8AP 703 A		83.6	69.8	76.7	2.5	87	7	64	9		0	0	0	0	3.14	1.83	2.07	16	.0	0		5	1	1	
KAHUKU 912 R		79.9M	68.4M	74.2M	1.0						0	0	0	0	3.89	1.04			.0	0					
KANEHUE MAUKA 781 A		79.1	67.7	73.4	.9	84	21	61	11+		0	0	0	0	7.41	1.88	1.12	22	.0	0		15	5	1	
KOOLAU OAM 833 A															11.64	4.69	3.42	20	.0	0		21	5	2	
LUALUAEI 804 A		82.4	67.7	75.1		85	29+	61	14+		0	0	0	0	4.78		2.22	13	.0	0		7	4	1	
MAKAPUU POINT 724 A		78.3	69.7	74.0		83	21	61	10		0	0	0	0	2.91	1.13	.51	15	.0	0		9	1	0	
NUUANU RES 4 783 A															10.08	.07	1.70	19	.0	0		21	6	3	
OPAEULA 870 A		78.5	63.5	71.0	3.0	84	6	58	10		0	0	0	0	10.48	6.52			.0	0					
PALOLO VALLEY 718 A															13.94	1.43	2.02	17	.0	0		22	9	4	
PRI WAIHAWA 820.2 A		81.2	63.2	72.2		85	22+	58	10		0	0	0	0	7.65		3.76	17	.0	0					
PUNALUU 884 A															11.97				.0	0					
WAIHAWA DAM 863 A															6.18				.0	0					
WAIHOLE 837 A															20.66	7.36			.0	0					
WAIALUA 847 A		80.2	64.1	72.2	.7	84	1	59	3+		0	0	0	0	3.58	1.86	1.60	20	.0	0		9	1	1	
WAIKIKI 717.2 A		85.5	68.6	77.1		90	7	63	10+		1	0	0	0	1.36		.38	20	.0	0		4	0	0	
WAIKIKI 750 A															3.68	1.80	1.10	18	.0	0					
ISLAND				74.0											7.45				.0						
* * * ISLAND OF MOLOKAI																									
KUALAPUU 534 A															4.92	1.86			.0	0					
MAPULEHU 542 A															6.23	3.18	2.65	17	.0	0		12	3	1	
MAUNALOA 511 A															4.57	2.26	1.12	18	.0	0					
MOLOKAI AP 524 A		78.2	68.2	73.2		81	24+	61	10		0	0	0	0	2.59		.60	21	.0	0		5	2	0	
ISLAND				73.2											4.53				.0						
* * * ISLAND OF LANAI																									
LANAI CITY 672 A		74.2M	65.4M	68.8M	1.8	78	21+	56	10		0	0	0	0	13.01	10.09	2.60	18	.0	0					
ISLAND				68.8											13.01				.0						
* * * ISLAND OF MAUI																									
HALEAKALA 8 E S 434 A															12.64	4.68	1.98	17	.0	0		15	8	6	
HALEAKALA RS 338 A		59.7	43.1	51.4		64	2	35	11+		0	0	0	0	12.38		4.70	10	.0	0		17	5	3	
HANA AIRPORT R		80.7	68.2	74.5		84	7+	57	10		0	0	0	0	26.67		17.57	16	.0	0		17	9	3	
HONOKOHUA 493 A															5.75	2.57			.0	0					
KAHULUI W8 AP R		82.3	65.9	74.1	.7	86	23+	57	9		0	0	0	0	2.00	.56	.88	19	.0	0		5	1	0	
KAILUA 446 A		78.3	62.8	70.6	1.5	81	26+	55	11+		0	0	0	0	18.73	7.20	2.80	21	.0	0		23	13	7	
KEANAE 346 A															32.70	7.60			.0	0					
KIPAHULU 258 A															24.58	17.54	12.53	16	.0	0		18	12	4	
KULA SANATORIUM 267 A		70.3	56.7	63.5	1.5	76	13	52	10+		0	0	0	0	12.14	9.43	2.71	9	.0	0		15	9	2	
LAHAINA 361 A		83.3	67.2	75.3		88	6	61	10+		0	0	0	0	2.51	1.46	.59	15	.0	0		6	3	0	
PAIA 406 A															4.03	.90	1.77	20	.0	0		9	2	1	
WAILUKU 392 A		81.1	68.6	74.9	2.3	85	13	60	10		0	0	0	0	2.75	.05	.68	10	.0	0		9	1	0	
ISLAND				69.2											13.07				.0						

CLIMATOLOGICAL DATA

Continued

HAWAII
APRIL 1968

Station		Temperature										Precipitation																
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
											Max.		Min.						Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											80° or Above	32° or Below	32° or Below	0° or Below														
ISLAND OF HAWAII																												
HAINA 214		78.6	63.7	71.2	1.2	83	23+	58	10		0	0	0	0	13.16	5.49	1.73	18	.0	0		19	9	5				
HAWAII VOLCNS NP HQ 54		67.1	52.7	59.9	.8	74	22	42	11		0	0	0	0	19.85	11.45	3.32	24	.0	0		20	12	8				
HILO WB AIRPORT		80.7	66.9	73.8	2.2	86	20	62	1		0	0	0	0	29.68	17.76	5.02	16	.0	0		22	13	10				
HUEHUE 92A															14.13	12.12			.0	0								
KAINALIU 738		77.7	62.7	70.2		82	8	57	10		0	0	0	0	10.96	5.30	3.84	11	.0	0		13	8	3				
KAMUELA AIRPORT		72.0M	51.1M	61.6M		75	14	41	18		0	0	0	0	12.06		4.28	21	.0	0		13	5	4				
KEAAU 92		82.2	64.1	73.2	2.1	88	22+	61	10		0	0	0	0	31.97	19.55	5.73	24	.0	0		19	16	10				
KEALAKEKUA 26.2		78.2	63.0	70.6		81	8+	56	10		0	0	0	0	10.51		4.18	11	.0	0		13	7	1				
KEHENA RESERVOIR 176.1															16.87				.0	0								
KONA AIRPORT 68.3		82.3	67.1	74.7		86	23	61	10		0	0	0	0	5.50		1.75	11	.0	0		7	4	3				
KUKUIHAELE HIC 199															12.47	3.24	2.25	19	.0	0		18	10	4				
KULANI CAMP 79		64.5	47.9	56.2		90	30	39	1		1	0	0	0	22.46		4.56	25	.0	0		24	14	6				
MAUNA KEA BEACH		85.4	68.7	77.1		92	3	62	10		3	0	0	0	3.04		1.31	11	.0	0		7	1	1				
PAHALA 21		79.0	63.4	71.2	1.4	83	14	59	11+		0	0	0	0	9.37	6.21	2.21	24	.0	0		9	7	4				
POMAKULOA 107															1.28				.0	0				0	0			
PUAKO 95.1															2.69		1.22	11	.0	0		4	2	1				
PUU WAAMAA 94.1															8.67	6.37	2.15	24	.0	0				3				
UMIKOA 118															15.66	6.33	3.56	3	.0	0				3				
WAIKAE SCD 88.2															43.74		5.48	24	.0	0		23	19	14				
ISLAND				69.1											14.99				.0									

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 92° ON THE 3D AT MAUNA KEA BEACH, HAWAII
 LOWEST TEMPERATURE: 28° ON THE 10TH AT MAUNA LOA SLOPE OBS, HAWAII
 GREATEST TOTAL PRECIPITATION: 48.25 AT KIPA 89.2, HAWAII
 LEAST TOTAL PRECIPITATION: .00 AT TWIN GATES 261.3, HAWAII
 GREATEST ONE-DAY PRECIPITATION: 17.57 ON THE 16TH AT HANA AIRPORT, MAUI

SPECIAL WEATHER SUMMARY

Damaging rains, frequent interruptions to the trades, and the continued occurrence of funnel clouds characterized the month.

April's most severe weather was the torrential rain (a result of upper atmospheric and surface low pressure systems) which severely damaged roads, culverts, bridges, and crops on east Maui during the late evening of the 15th and early morning of the 16th. Flash flooding caused 19 landslides and 6 bridge washouts on the Hana Belt Road between Kaeleku and Kipahulu, as huge boulders and debris clogged streams, forcing them to seek new routes to the ocean. Two 3-ton culverts were torn from East Honomaele Stream, one being carried 1/2 mile downstream and deposited in a pasture near Honomaele. Road washouts isolated the village of Kaupo. Considerable damage was done to plantings of cabbage, lettuce, and tomatoes.

At Hana on the 15th, 1-1/2 inches of rain fell in 15 minutes and nearly 5-1/4 inches from 9:40 p.m. to 11:15 p.m. Hana Airport reported 16 inches in the 24 hours ending at 8 a.m. on the 16th. Over 3-1/2 inches fell at Kaupo Ranch from 10:50 to 11:50 p.m., and 1.8 inches in 20 minutes. Army Engineers estimated \$288,000 damage to public roads, bridges, and culverts, and \$23,000 to private facilities on east Maui.

An intense thundershower on the afternoon of the 16th dropped over 3 inches of rain an hour over parts of central and south-central Oahu, but appears to have done no damage. Wahiawa reported 3.35 inches of rain from 4:15 to 5:20 p.m., and downtown Honolulu nearly 1.9 inches in a 50-minute period.

Heavy thundershowers, which dumped almost 4-1/2 inches of rain on Lalamilo Field, Hawaii Island, from 3 p.m. to 6:50 p.m. on the 20th, did damage estimated at \$30,000 to \$40,000 to roads in the Waimea and Kawaihae areas and \$125,000 damage to leafy vegetable crops

in the Lalamilo and Pukapu areas (near Waimea), where it also washed away 150 acres of valuable topsoil. Heavy rains also fell on northeastern and eastern Maui, including areas affected by the floods of the 15th and 16th, but little or no damage was reported.

Several other weather events of interest occurred during the month.

On the 9th and 10th, a small, intense surface low pressure area in the vicinity of the islands resulted in a variety of weather. On the night of the 9th winds of 40 to 50 m.p.h. did scattered crop and tree damage in exposed areas, and lifted the roof from a house at Waianae, Oahu; while on Haleakala Summit, Maui, 9 inches of snow fell, accompanied by 29° temperatures and by gusts of 46 m.p.h., which whipped the snow into 5-foot drifts. Snow was reported down to the 8,000-foot level. Pea-sized hail fell for 5 minutes at Kulani Camp, Hawaii Island, at 3:47 p.m. on the 9th, and at Upolu Point, Hawaii Island, on the 10th.

At 5:20 p.m. of the 10th, residents of northwest Maui reported five funnel clouds offshore moving towards that island; and on the 12th a waterspout was observed touching the sea surface off McGregor's Point, southern Maui.

Honolulu Airport had the lowest "percentage of possible sunshine" (40 percent) ever recorded in April since records began in 1951, and morning haze and smoke were noted during days when the trades were absent. Hilo's 17 percent of possible sunshine was only half that station's April average.

Monthly rainfall was well above normal on all islands, with every gage on Lanai and southern east Maui, and many on Hawaii Island, reporting from 3 to 9 times their monthly means. New April rainfall maximums were set by a number of stations having long periods of record.

HAWAII - APRIL 1968
SPECIAL WEATHER SUMMARY - CONTINUED

Stations With More Rain in April 1968
than in Any Previous April

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest April Total	April 1968
MAUI			
Kipahulu	67	23.04"	24.58"
Waiopai Ranch	69	13.77	15.17
HAWAII			
Ahua Umi	44	7.30	10.30
Holualoa Beach	47	7.59	7.72
Honuaula	38	9.40	18.40
Kamuela	77	12.64	13.52
Napoopoo	27	6.96	9.16
Puu Laau	36	7.32	8.78
Puu Lehua	44	7.60	8.70

Saul Price
Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

Russell Dorr
Acting State Climatologist
P. O. Box 96811
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
APRIL 1968

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																		
ANAHU 1111	A	6.77	.17			.14	*		.08	.58	.70	.03	*			.60	.07	.05	.02	.09	*	*	4.10	.03	.01	.01	*	*	.02	.07	*			
BRVLSWOOD STA 985	A	9.13	.25	.01					.02	.11	.02	.04	*			.03	.06	.14	2.38	.04	*	*	.28	.20	1.19	2.34	.82	*	*	.18	.17	*		
EAST LAWA 934	A	5.93	.24	.01		.04	.06	*	.01	.15	.09	.02	*			.04	.02	T	1.19	.13	*	*	.77	.45	.70	1.08	.54	*	*	.34	.35	*		
ELEEE 927	A	2.13	T						.20	.02	.05	T											.42	.07	1.03	.18	*	*	.01	T	*			
HAUOLA 1110	A	8.63	.10	.02		.15	*		.05	.55	1.10	.09	*			.75	.05	.10	.03	.09	*	*	5.30	.03	.06		.04	*	*	.03	.09	*		
HALENAHAMI 1006	A	6.73	.48	.05		.04	.76	*	.09		.15	.07	*			.58	.24	.12	2.38	.09	*	*	.73	.24	.09	.03	.15	*	*	.21	.23	*		
HUKIPU 945	A	1.93								.17	.26									.41	.10					.50	.09							
ILILILUA INTAKE 1050	A	13.62		.02		.10	.18	*	.02	.25	.82	.20	.10			.56	.40	.90	1.50	.38	.10	1.60	.10	1.72	.52	.64	.60	1.35	.58	1.12	.04	.40	*	
INTAKE WAINIMA PC 1086	A	19.28	.90	*	*	.01	1.80	*	.21	3.48	*	*	.03	.56	.40	.82	.82	.82	.82	1.07	3.52	.10	1.78	*	.80	.19	*	*	1.84	*	*			
KALIHAI RES 1131	A	13.00	.83	.07	.06	.06	.27	*	.12	.33	.52	.07	*			.43	1.30	1.12	.13	.47	*		.41	.86	.41	.51	.51	*	*	.70	.10	*		
KANALOHULU 1075	A	8.68							.08	3.48	1.42	.02	.57	.03	.27			.02	.22	.24	1.93	.04	.02	.15	.04	.07	.07	.07	.07	.07	.07	.07	.07	
KANEHA RESERVOIR 1092	A	17.43	1.29	.06		.09	.29	*	.52	.35	1.30	.25	*			.98	1.00	2.30	.15	.70	*		7.52	.17	.15	.05	.05	*	*	.15	.06	*		
KAPAA STABLES 1104	A	9.13	.40	.03		.04	.06	*	.02	.40	.80	.10	*			.16	.05	.44	.02	.10	*		.62	.05	.02	*	*	*	*	.14	.02	*		
KEALIA 1112	A	5.60	.21	.03		.06	.06	*	.03	.37	.95	.03	*			.35	.02	.04		.04	*		3.17	.11	.02	*	*	*	*	.30	.07	.10	*	
KEKANA 944	A	1.59								.13	.20	.05									.02			.12	.41	.09	.09							
KILAUOA 1134	A	6.13	.16	.05		.03	.18	*	.07	.07	.49	.02	*			.33	.43	.41	.05	.15	*	*	2.61	.23	.11	.26	.02	*	*	.34	.12	*		
KILAUOA FIELO 17 1135	A	11.03	.74	.07	.08	.04	.18	*	.18	.16	.56	.09	*			.70	.97	1.92	.21	.36	*	*	3.14	.46	.26	.25	.11	*	*	.49	.06	*		
KILAUOA POINT 1131	A	7.43	.02	.02		.03	.18	.06	.13	.12	.51	.04	*			.38	.70	.07	.07	2.12	1.12	.55	.35	.07	.20	.03	.25	.03	.12	.22	*	*		
KILO 1039	A	1.11								.14	.15	*									.81	*				.06	.10							
KOLOA 936	A	4.43	.37	.05		.05	.22	*	.06	.17	.05	*				.27	.12	.50		.07	*		.32	.43	.04	.06	.10			.46	.24	*		
KOLOA MAUKA 994	A	8.55	.51			.08	.23	*	.04		.21	*				.27	1.09	.33	1.98	.11	*	*	.96	.39	.41	.45	.31	*	*	.64	.54	*		
KOLOKO RES 1137	A	10.34	.26	.02	.24	.14	.12	*	.09	.26	.74	.02	*			1.13	.68	2.17	.24	.35	*	*	2.94	.15	.17	.19	.05	*	*	.37	.01	*		
KUKULUA 935	A	9.73	.73			.11	.03	*	.01	.11	.02	.02	*			.08	.05	.33	.05	*	*		.43	.05	.73	.94	.18	*	*	.17	.10	*		
LIHUE VARIETY STA	A	7.53	.03	.04	.02	.02	.20	*	.21	.06	.35	.12	.08			.19	.03	.24	.42	.12	3.37	.07	1.16	.15	.18	.02	.10	.05	*	.17	.13	*		
LIHUE 1020	A	2.66	.06	.03		.14	*		.15	.02	.13	*				.25	.08	.41	.07	.15	*	*	.66	.13	.02	.03	.07	*	*	.12	.14	*		
LIHUE WB AIRPORT	R	1.84	T	.04	T	.07	T		.03	.05	.04	.37	T	.01	.04	T	.06	.01	T	.50	.03	.30	.03	.08	T	T	.03	T	.08	T	.07	*		
MAKAHUNA POINT	A	1.84		.01					.02	.02	.05	.04	.19				.10	T	.08	.02	.21	*		.55	.26	.10	.13	.01	.05	*	*	*		
MAKAHUELI 965	A	1.28							.05	.09										.15	*		.01	.33	.53	.12								
MANA 1026	A	.97							.06	.14													.01	.14	.10									
MOHIMI UPP CROSS 1083	A	12.94	.04		.08	.08		1.20	1.36	2.72	2.40	.08	.16				1.68	.32	1.28	.40	.08		.08	.30	.24	.08	.08	.08	.08	.08	.08	.08	.08	
MOLDA 1145	A	8.39	.16	.01	.05	.10	*		.02	.70	.64	.12	*			.33	.35	.34	.10	.05	*	*	4.93	.10	.04	.11	*	*	.22	.02	*	*		
NIU RIDGE 1031	A	2.28							.06	.63	.26	*						.69	.70	.30	.20	*		.82	.12	.09			.12	*	*	*		
N WAILUA DITCH 1051	A	17.08	1.38	.08		.30	.19	*	.06	.46	1.56	.26	*			1.00	.69	.70	.30	.20	*	*	1.80	1.20	.82	.80	1.00	*	*	1.50	.48	*		
PH WAINIMA 1115	A	9.76	T	.15	.07	.17	.06	.02	T	1.16	.27	T	T	.01			.02	.22	.01	.43	1.81	1.16		.40	.77	.45	.21	T	1.15	.26	.34	*		
PRINCEVILLE RANCH 1117	A	9.11	.17		.06	.17			.06	.25	.78					.06	.35	.63	.05	.41	1.39	*	1.70	1.32	.45	.56	.22		.58	.32	.08	*		
PUEHU RIDGE 1040	A	2.49							.18	.27													1.15			.20	.13			.06	*	*		
PUMI 1013	A	2.73	.22	.03		.21	*		.18	.04	.12	.02	*			.25	.04	.13	.12	.14	*	*	.51	.11	.03	.10	.16	*	*	.38	.27	*		
RESEVOIR 6 1004	A	5.26	.34		.07	.24	*		.08	.15						.34	.17	.08	1.55	.16	*	*	.74	.04	.14	1.12	.31	*	*	.10	.03	*		
WAIHANA 930	A	2.60	.01	*	*	*	*		T	.03	T	*	*							.08	*	*						*	*	.15	.75	*	*	
WAIHANA MOUNTAIN 990	A	15.75	*	*	*	*	*																				*	*						
WAIHAI LUKER 1054	A	7.31	.02		.02	.12	.02		.10	.05	.42	.08	.03	.45	.32	.62	.25	.37	.13	.91	.05	.89	.41	.20	.23	.53	.15	.29	.11	.54	*	*		
WAIHAI UPPER 1052	A	9.58			.03	.25	*		.17	.35	.16	.23	.33	.53	.82	.73	.33	.05	.61	.02	.65	.40	.25	.50	1.70	.25	.73	.19	.23	*	*			
WAIHAI 943	A	1.95							.24	.41						.10	2.03	.44	.06	.37	1.08	.25	.32	.05	.03	.05								
WAILUA KAI 1065	A	4.82	.22	.04		.15	*		.22	.10	.07	.09	*			.31	.70	.07	.04	.07	*		1.85	.10	.63	.07	.05	*	*	.13	*	*		
WAIHAI 947	A	1.07							.12	.02									.08															
WEST LAWA 931	A	4.72	.13	T	T	.01			1.07	.04	.02						T	T	.30	.04	*	*	.90	.11	.06	1.17	.28	*	*	.37	.22	*		
ISLAND OF OAHU																																		
AIEA FIELO 625 761	A	3.89							.06	.06	.51	.02	*			.38		.58	.26	.07	*	*	1.50	.07	.28	.10								
BERETANIA PUMPING STA	A	4.21				T	*		T		.09	.02	.23	*		.08	T	2.10	.01	.11	.85	*		.35	.30	.01	.04			T	*	*		
CAMP 84 807	A	4.74	.10	*	*	*	*		.26	.78	*					.53	1.62	*	.21	*	*	.48	.72	.04										
CHURCH COLLEGE LAIE	A	6.74		.02	.01	.10			.21	.29						.12	2.03	.44	.06	.37	1.08	.25	.32	.05	.03	.05			.04	.13	*	*		
COCONUT ISLAND 840.1	A	5.90	.41		.16				.04	.22	.23																							

DAILY PRECIPITATION

HAWAII
APRIL 1968

Continued

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF MOLOKAI																																		
KALAPAPA 503	5.90			.69		.41			.04		.82	.10	.20			.66		.13	.26	.06	2.44			.10		.10						.02		
KAUNAKAI 536	1.07											.72				.22																		
KEONELE PENS 551	3.22																																	
KUALAPU 334	4.92	*	*	.61	.05	.46			.02	.15	1.09	.16	.05	.16		.02	.02	.01	.01				2.00		.03									
MAPULEHU 542	6.23		.17		.22		.09	.05		.59	.15	.06			.75				.42	.23	.18	*			.03	.03	.11					.10		
HAUNALOA 311	4.57	.24		.08		.08	*		.57	.15	.80	.09	.01	*	*	.05	.02	.29	1.12															
HOLUKAI AP 524	2.39			.08		.25			T	.08	.58	.05				.41	.06					.25	.60											
PUUOHOKU RANCH 542.1	6.10		.32	.03		.01	.20	*		.80	.40	.10	.30		2.00	.10				1.30	.02			.05	.32		.02			.06	.04	.03		
HAIKULU 540	20.41	2.98	*	*					5.50							6.37							4.64					*	*	*	.06	.04	.03	
ISLAND OF LANAI																																		
KANEPUU 690	5.46	*	*	*	.08	*	*	*	*			.96	*	*	*	*		2.14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.02	
KAUHALAPU MARBON 658	5.52								.40	.02	.77	.08	.06				.09	.13		.67	*	*		1.57	.28	.07		.51	*	*	.87	*		
LANAI CITY 672	13.01		.03	.02		.04	*		1.12	.06	1.14	.60	.18	.38	.07		.22	.01	2.60	.61	1.10	.05	1.49	.02	1.03		.23	T	2.00	.01	T			
LANAIHAMA 684	7.94	*	*		.21	.04	*	*	*										2.00														.53	
MAHANA 694	10.00	*	*	*	*	*	*	*	*																							10.00		
HALAUEA 676	4.18	*	*	*	*	*	*	*	*		1.70	*	*	*	*	*		1.57	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.03	
HAIKAKUA 685	5.39	*	*	*	*	*	*	*	.59	*	*	*	*	*	*	1.88	*	*	*	*	*	*	2.20	*	*	*	*	*	*	*	*	.72	*	
ISLAND OF MAUI																																		
AUWAHI 252	10.68								.05	.09	1.81					3.28		.23	1.98	.18	1.24	1.40	.86	.42	.25	.69		4.30	.40					
HALEAKALA 8 E S 434	12.04	*	.05	1.16	1.40	.08	*		.05	.02	.77	.08	.06	*	*	.05	.28	2.27	.06	.91	1.78	.61	.31	.15	.21		.09		.11	.02	.11	.07	.07	.08
HALEAKALA RANCH 432	9.78	*	*	.43	.58	*	*	.61	.07	1.37				*	*	.05	.28	2.27	.06	.91	1.78	.61	.31	.15	.21		.09		.11	.02	.11	.07	.07	.08
HALEAKALA RS 338	12.38			.20	.06	T	.14	.01	.08	.03	.47	.05	.12	T		.12	.20	.66	1.51	.25	1.07	.47	.25	.85	.05	.40		.36	.07	.46	.24	.03		
HALEAKALA SUMMIT 338.4	19.04	.45	7	.05	7			.17	.05	.02	1.80	.10				.10	.40	.60	1.65	.10	.08	1.39	1.60	.30	.42	1.14	1.93	2.00	1.42	1.57	1.70	T		
HALEIHALLE 423	4.64	.40	.05	.52	.11	.08	*		.10	.02	.83	.35		*	*	.11	.10	.72	.04	.06	*		.76	.14	.14		.02		.04		.05			
HAMAKUAPOKO 485	5.48		.11	.77	.02	.02	.01		.18	.04	.86	.19	.01	*	*	.39	.19	.16	.22	.27	.99	.01	.30	.06	.24		.23	.06	.08	.01	.02	.04		
HANA 354	12.65	*	.30		.10	*	*	1.61		.89	.04					.76	1.60	.96	.57	.27	.28	3.63	.04	.39	.26		.50			.15	.30			
HANA AIRPORT	26.67		.12	.48	.09	.19	.07	.21	.64	1.29	.25	T				7	5.04	1.57	.90	.67	.55	.27	.86	.05	.19	.16	T	1.61	T	T				
HANAHULI 281	27.20	.03	T	.43	.03	T	.09	1.10	2.49	.12	T	T	.24	.02	1.01	4.30	2.72	.91	.43	.83	.09	.90	T	.05	.29		.32	.25	1.13	.10	.04	.17		
HOLUA CABIN 259.5	13.42		1.78	*	*	*	*		.65	.19	*	*	*	*	*		3.40	3.50																
HONOKAHU 480	22.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
HONOKAHU 493	5.75	*	.02	.25		.18	*		.30		.78	.13	*	*	*	1.75	.29		.10				.99	.42	.08		.09	.05	*		.19	.03		
HONOHU GULCH 341	19.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
KAHONA INTAKE 374	12.49	*	*	*	*	*	*	*								4.57				3.05	*	*	*	*	*	*	*	*	*	*	*			
KAHULUI HB AP	2.00	*	.14	.04	.02	.01	.20	.01	.02	.13	.32	.03	.01	*	.03	.05	T	.06	.01	.88			.02	*	*	*	T	.02	*	*				
KAILIHI 436	19.85	*							.65	.55	.13	1.94	*	.03		1.12	.44	1.44	1.47	.89	2.02	2.80	.26	.48	.68	.68	.15	1.04	.04	.44	.24			
KAILUA 446	18.73	.01	.31	.62	.12	.26	.11	.06	.31							1.32							4.87											
KAHULA INTAKE 375	8.43	.21						.35	.31							1.32																		
KEANUA 410	2.95		.01	.39	.02	.03		.35	.31		.02	.50	.25	.01		.02	T	.21	.01	T	1.00	T		.02	.11									
KEANUE 346	32.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
KEANUAPU BEACH 260.2	1.02		T	.05		.01			.01		.54	.34				.06				.01	T													
KIHEI 311	24.58			.06				.10	.06	.02	1.61	.02				.06	.16	.27	.23	.96	1.38	1.13	1.00	.31	.50	.64	.54	1.20	.20	.56	T	.10		
KIPAHULU 258	8.65							.10	.06	.02	1.61	.02				.06	.16	.27	.23	.96	1.38	1.13	1.00	.31	.50	.64	.54	1.20	.20	.56	T	.10		
KULA HEIGHTS 325.2	24.58							.10	.06	.02	1.61	.02				.06	.16	.27	.23	.96	1.38	1.13	1.00	.31	.50	.64	.54	1.20	.20	.56	T	.10		
KULA 325.2	8.65							.10	.06	.02	1.61	.02				.06	.16	.27	.23	.96	1.38	1.13	1.00	.31	.50	.64	.54	1.20	.20	.56	T	.10		
KULA SANATORIUM 267	12.14					.90	.91	.02	2.71	2.50	.61	.04		.65	.99	.45	.06	.04	.20	.53	.17	.05	.55	.39				.10	.19	.06				
LAHAINA 361	2.51							.05	.01	.42	.04					.59			.52	.18	.51		.19											
LAUNIPOKO INTAKE 376	8.60																																	
LAUNIPOKO VILLAGE 372	2.20										.44	.05				.14			1.25	.07		.10	.05	.10										
LUPU UPPER 462	20.10																																	
MAHINAHINA 466	5.54			.95	.17	.03		.40			.42	.10				.80	.02		.93		1.34		.04	.07	.08	.10	.07				.02			
MAKALELE FLO 60 497	6.89	*						1.00	*							3.58							1.71	*	*	*						.49	.11	
OLAHU 332	14.44	1.06	.01	.19	.18	.01		.34	.17		.62	.05				1.24	.47	3.07		2.62	*		1.88	.03	.25	.07	.03	*			.15	.01		
OLAHU 296	2.18										.70	.15	.33						.60			.05	.33	.02										
OLAHU GULCH 377	6.20																																	
PAKAA 350	28.65	.06	.25	1.30	.17	.18	.56	.34	1.10	.17	1.62	.10		.05	1.73	2.42	2.88	1.50	2.00	2.75	.70		.63	1.81	1.04	1.30	2.68	.25	.92	.44				
PAIA 406	4.03		.14	.44	.02	.02	T		.09	.02	.68	.15	.01		.08	.05	.10	.10	.11	1.77	.01	.10	.07	.03	.01		.02	T						
PANILEIULU 259.2	23.55	*																																

DAILY PRECIPITATION

HAWAII
APRIL 1968

Continued

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KAMUELA 192.2	13.52	.27	.04	.56	.56			.08	.12	.05	1.00	2.70	.42			.02	.76	.08	.02	.84	.38	5.08		.20		.03	.07	.21	.03					
KAMUELA AIRPORT	12.06	.20	.01	.40	.15	T				.10	1.38	2.10	.26	T			.09	.14		.30	1.48	4.28		.05	.03	.35	.02	T	.02	.06	.04	T		
KAPAPALA PANCH 36	15.98									1.30	2.21	.10		.33		.59	.10	1.33	1.90	.50		.12		1.50	1.42	1.45	.25	.16		1.60	.14			
KAPMO LANDING 935	18.26					2.65	.98					2.24								6.22							7.15							
KAUHAHA 88.1	47.26	.61		1.42	.52		.03	2.08	2.45		.02	.76	.12			1.28	4.00	2.56	.22	5.33	.04		1.55	.68	5.22	4.72	2.74	2.28	4.06	4.25	.32			
KAWAHU LOWE 193	34.62					13.40	*						8.20							8.60							4.42							
KEAU 92	31.97	.35		.52	.60	.06		1.15	2.05	.02		.01		.54	.98	2.98	4.00	.03	.13	.06		.89	.24	5.73	3.74	1.57	1.38	2.70	1.67	.57				
KEALAKEUA 26.2	10.51	.10	.07				.05		.67	.65	.20	4.18	.77		.33		.88	.67	.02		.41					T	.09	.25	.02	.72	T	.43		
KEHENA 181.2	24.40																													24.40				
KEHENA RESERVOIR 176.1	16.87	1.41	.08	1.86	1.29	.07	*	*	.72	.13	.76	2.33			.77	.25	.18	.08	.88				4.36	.01	.13	.46	.35	*		.73	.02			
KIDILAKAA A F 6	12.60					*	*			*	*	*	*								*	*	*	*	*	*	*	*	*	*	*	12.60	*	
KIPPA 89.2	48.25	.32		1.82	.73	T		2.86	1.93	.01	.50	.81	.08			1.56	4.70	3.11	.10	2.09	.03	T	1.71	.84	6.55	5.15	4.15	1.74	2.34	4.50	.62	*		
KOMALA 179A	16.23	.84	.18	.22	.02	.11	*	1.59	.04	.20	1.40					.47	.03	.07	.38	1.62			8.07	.01	.01		.15				.72	.04	*	
KOMALA MAULILI 176	19.82	1.53	.24	.79	.20	.05	*	1.50	.07	.35	1.79	*				.59	.07	.13	.42	1.15	*		9.20	.02	.01	.10	.58	*		.97	.06	*		
KOMALA MISSION 175.1	16.37	.10	.12	.45	.03	.12	1.06	.30	.16	.08	.23	1.93	.32			.14	.07	.10	.48	1.96	2.41	4.55	T	.02		.06	.32	.04	.59	.25	.08	*		
KOWAE LOWE 196	18.13					4.55	*						4.71							5.42	*		*	*	*	*	3.45	*	*	*	*	*		
KONA AIRPORT 88.3	5.50	.05							1.06	1.25	.17	1.75	.67	T			.05			.23	T					.22	T				.05	*		
KUKAIAU 222	16.30	.80	.10	1.62	1.06	.12	T	.01	.44	T	.54	1.05	.66			.06	.97	.32	.04	2.09	.18	.25			.27	.84	.79	.70	.02	.25	2.97	.15	*	
KUKUIMAELE MIC 199	12.47	.24	.24	1.20	1.05	.40	.55	.46	.54	.02	.02	.85				.42	.02	.08	.22	.60	2.25	.03	.60			.10	.05	.07	.02	.42	.06	.92	.04	
KUKUIMAELE MILL 206	9.45	.40	.10	1.00	.36	.30	*		1.56	.02	.28	.69	*			.03	.34	.12	.43	1.49	*		1.18	.06	.03	.10	.05	*			.85	.06	*	
KULANI CAMP 79	22.46	.23	.01	.54	.32	.20		1.10	.92	.08	.31	.05	.57		.10	.48	1.10	.96	.70	.46	.15		.52	.10	3.21	4.56	1.83	.83	2.00	.94	.19	*		
KULANI MAUKA 76	7.81		.12	.19			.02	.16	.60			.08				.13	.17	.38	.32	.11	.47	.03	.05	.88	2.14	.40	.08	.65	.46	.08	.09	*		
KULANI SCHOOL SITE 78	15.81					2.00						2.00	.85							2.96													*	
LANIMAU 68 C	14.55	.21			.05				.66	1.26	.98	2.12	1.88			.16	.10	.69		1.18	.59		.06			1.13	1.48	.10	.16	.58	.88	*	*	
MAUKA 2	9.17	.38	.02			*			.77	*		2.88	.67			.49			2.18	T	.18	*	T	.46						.24	.90	*	*	
MAUNA KEA BEACH	3.04							.02	.27	.24	1.31	T		.02			.18	T		.06	.29	.41								.20		.74	*	
MAUNA LOA SLOPE DB5	4.10					.29		.10	.10	.03	.38	.02			.01	.13	.36	.08	T	.20					.06	.12	.40	.04	1.10	.90	.04	*	*	
MIDDLE MAULALO 68.1	8.03	.44	*	*			*		1.15	1.17	.54	.85	2.00		.03					1.06							.22			.29	.08	*	*	
MIDDLE PEN 147.1	8.60				.13	*	*			2.20							1.58	.29	*	*	*	*	4.30	*								7.80	*	
MOAULA 18	7.80																																*	
MOUNTAIN VIEW 91	36.68	.40	.02	.93	1.08	.02	*	1.59	2.82	.12	.07		.02		.83	1.53	2.35	1.54	.23	1.99	.02		.30	1.37	5.45	3.77	1.78	1.88	3.63	2.20	.74	*	*	
NAALEHU 14	9.44	.12	.02	T		.01	*		.55	.54	.7	.39	.15			.33	.28	.28	.11	T	*		.39	.96	2.52	1.59	.25	.39	.53	.03	T	*		
NAPUPOD 28	9.16	1.47							.81	*							4.93						1.06								.89	*	*	
NAUUL FOREST 38.6	16.56				.07		.01	.18	*								2.90	.46	.78		.74	.28	T		.74		4.33		1.93	2.12	2.31	1.42	.03	
NIULI 179	17.26	1.24	.12	.73	.10	.15	*		2.30	.03	.12	1.30				.38	.07	.07	.38	1.21			7.64	.08	.22	.01	.18	*			1.05	.08	*	
ODKALA 223	18.94	.80	.08	1.28	.78	.11		.30	.53	.02	.63	1.23	.16	T		.18	1.50	.74	.02	3.20	.03	.17	T	.08	1.22	1.05	1.62	.15	.65	2.15	.26	*	*	
OPIMIALE 2 24.1	5.53		.01		.96	.01	.01	1.00	.19	1.02	.08	3.05	.01	.01	.04	.02	.03	.17	.28	.02	.06	.05		.32		.01	.07	.06	.05	.26	.19	*	*	
OPC MID LAND EST 91.5	21.10					3.89	*													6.71													*	
PAUHAU 217	12.87	.42	.09	1.17	.58	.12		.05	1.20	.04	1.68	.61	.12			.12	.25	.14	2.27	.88	.02	.57	.01	.11	.26	.51	.09		.05	1.50	.01	*		
PAUULU 221	13.38	.98	.20	1.70	1.17	.09		.06	.81	T	.52	.85	.65			.03	.71	.26	.16	2.00	.26	.35		.02	.55	.46	.35	.01	.14	2.94	.11	*	*	
PAHALA 21	9.37					.06	.06	.72	.01						.20	.17	.04	1.16	.92						1.13	2.21	1.71	.04	.09	.86	.01	*	*	
PAHOLA 65	27.43	.59	*	1.71	.64	.21	*	.68	1.20	.06	1.83	.08	.02			.68	1.25	2.44	2.59	.89	.06	.10	1.60	.21	2.34	2.84	.45	.17	2.09	1.29	.51	*	*	
PAKAU 37	14.03																															14.03	*	
PAPAIAKU 144.1	33.13	1.10		.58	.37	.03	.01	1.69	1.33	.03	.09	1.22	.7	T		.12	.86	3.25	3.18	.04	3.41	.15	T	.69	.87	5.02	3.53	1.43	1.18	1.01	1.21	.73	*	
PAPAIAKU MAUKA 140.1	44.05	.55	.7	2.04	1.09	.01		1.85	1.60	.03	.09	.98	.01			1.50	3.06	2.68	.23	2.60	.06	.01	.28	1.45	7.10	3.35	3.25	2.25	1.36	3.84	.78	*	*	
PEPEKEO MAKAI 144	26.84	.51	.01	.38	.28	.05		1.35	.72	.09	.26	.72	*		.08	1.65	2.76	1.49	.56	.47	.45	.03	*		1.25	6.15	1.25	2.10	.46	1.40	1.97	.40	*	
PILIHUUA 99																																	*	
POHAKULDA 107	1.28		.40	*		.22	*			.10																				.11	.06	*	*	
PUAKO 95.1	2.69									.35	.35	1.22	.01	.57				.05	*		.01	.02					.01		.01	.02	.07			
PUU KIME 120	5.64																															5.64	*	
PUU LAUA 102.1	8.78	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.78	*
PUU LEHUA 73	8.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.70	*
PUU MALI 113	7.93	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*														

DAILY TEMPERATURES

HAWAII
APRIL 1968

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	70 44	65 52	65 53	68 51	71 54	72 47	72 46	72 52	56 49	60 44	66 46	66 48	66 54	69 49	70 52	71 50	67 51	72 49	70 50	71 57	71 49	71 50	71 58	68 58	63 58	68 56	68 50	65 56	69 50	70 55	68.1 51.1	
KILAUEA POINT 1133	MAX MIN	80 68	75 69	77 68	78 68	81 68	81 71	82 70	80 63	70 60	79 66	82 66	77 67	78 71	78 68	78 71	82 67	80 70	82 70	78 68	75 67	82 69	81 68	78 68	85 70	76 69	79 71	79 69	79 70	79 68	79 69	79.0 68.3	
LIHUE AB AIRPORT	MAX MIN	78 68	77 68	77 68	77 64	77 63	78 61	80 62	79 62	70 62	76 62	77 58	81 61	79 61	78 67	77 69	79 65	80 64	79 67	79 65	81 70	80 72	80 68	80 71	76 72	76 69	78 72	79 70	79 72	79 70	79 69	78.1 66.7	
MAKAHUEA POINT	MAX MIN	80 65	80 68	80 70	80 69	80 69	80 66	82 66	81 67	82 66	77 64	82 66	84 68	86 69	84 69	83 69	81 70	84 69	83 71	84 70	83 72	85 68	86 68	88 72	83 69	83 70	81 69	87 72	82 72	82 73	81 69	82.2 68.8	
HANA 1026	MAX MIN	85 60	85 60	85 59	84 60	85 64	85 64	85 85	85 85	87 87	74 60	79 62	84 64	85 64	85 65	84 68	87 67	86 65	87 65	86 67	86 68	87 68	85 68	87 68	86 68	86 66	86 66	84 65	87 65	88 64	88 64	84.4 64.1	
NIU PIDGE 1035	MAX MIN	80 58	81 58	80 58	80 59	80 59	80 60	79 59	80 60	80 61	75 57	76 60	78 60	79 60	79 61	81 61	84 64	85 63	84 64	83 64	82 63	82 63	79 63	80 65	80 65	74 66	76 60	78 62	79 60	80 63	79.9 61.7		
WAIKAI LOWER 1054	MAX MIN	78 58	77 59	77 61	77 60	78 63	78 65	81 55	80 61	80 59	77 59	79 57	80 57	79 59	79 59	75 64	81 61	80 61	80 65	80 64	80 58	80 67	80 63	79 67	78 70	76 68	76 66	76 65	78 65	77 64	77 64	78.3 62.1	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	82 61	83 62	81 68	82 65	84 67	84 62	86 66	85 66	76 65	80 61	81 66	82 66	82 65	84 63	81 67	81 69	83 64	85 67	83 69	84 69	84 66	84 67	81 70	81 69	80 67	83 70	83 69	84 70	83 68	84 68	82.6 66.3	
HONOLULU W84P 703	MAX MIN	84 66	82 66	83 70	83 68	84 70	85 66	87 71	84 70	78 64	82 65	82 68	82 71	85 66	82 71	83 70	85 68	83 70	85 70	83 72	85 71	83 70	85 71	86 74	83 72	85 73	85 73	85 73	85 73	85 72	85 72	83.6 69.8	
HONOLULU SUBSTA 704	MAX MIN	78 69	77 70	78 69	77 70	80 70	83 70	82 73	81 73	73 64	78 64	78 64	80 67	80 71	81 72	80 72	79 68	80 73	81 73	80 73	81 71	81 73	81 73	80 71	80 73	78 73	79 73	81 75	80 74	80 72	80 72	79.6 71.0	
KAHUKU 912	MAX MIN	79 67	80 69	79 69	78 68	78 69		82 64	81 67	73 67	74 67			81 64	80 65	81 69	82 70	80 70															79.9 68.4
KANEONE MAUKA 781	MAX MIN	79 65	80 66	72 67	78 68	78 66	72 66	80 65	80 69	80 65	77 61	77 61	80 67	80 68	82 67	80 66	78 68	80 67	82 67	80 69	79 70	84 70	81 69	83 68	80 71	77 72	77 71	77 72	80 70	80 68	80 68	79.1 67.7	
LUALUALEI 804	MAX MIN	83 66	83 64	83 69	81 70	83 64	81 64	85 65	81 63	84 65	75 61	80 63	80 62	82 64	84 61	83 64	85 69	83 66	85 69	82 69	82 70	82 70	84 66	84 70	84 70	80 73	80 74	80 74	84 75	85 72	83 71	82.4 67.7	
MAKAPUU POINT 724	MAX MIN	77 69	82 68	75 69	76 69	74 70	77 70	78 70	79 71	77 66	70 61	77 66	79 67	81 69	82 73	78 70	76 67	79 67	81 70	81 71	77 70	83 72	79 72	79 72	79 72	79 71	76 72	77 72	80 71	79 72	78 71	78.5 69.7	
OPAUELA 870	MAX MIN	78 60	78 60	76 60	72 63	76 63	84 65	81 60	80 64	83 62	67 58	72 59	81 65	83 69	80 61	81 65	77 65	77 62	81 62	80 62	82 65	78 65	82 66	79 63	82 66	77 66	78 66	77 68	77 67	78 66	77 66	78.5 63.5	
PRI WAIKAWA 820.2	MAX MIN	81 59	81 60	82 62	80 63	80 63	81 60	84 64	85 60	85 60	70 58	74 60	82 63	78 64	84 60	82 66	81 60	80 63	82 63	82 64	84 64	85 67	82 67	84 64	85 65	82 66	79 68	78 68	82 68	84 66	82 66	81.2 63.2	
WAIKAWA 847	MAX MIN	84 65	81 59	77 63	73 65	79 63	80 63	81 62	82 60	82 60	71 60	76 66	81 66	78 66	83 65	80 64	82 67	82 64	82 64	79 67	77 62	82 66	82 65	82 66	83 66	81 68	80 69	81 70	81 65	82 64	82 64	80.2 64.1	
WAIKIKI 717.2	MAX MIN	82 67	86 64	84 68	84 69	85 68	87 63	90 69	89 70	88 65	89 63	83 65	83 70	86 69	87 65	86 70	85 72	85 66	85 67	87 70	89 71	86 68	84 69	85 67	86 74	85 72	86 71	83 73	83 71	84 69	84 69	85.5 68.6	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	77 70	79 67	75 69	77 68	75 68	78 64	77 64	80 69	81 68	72 61	75 64	77 69	77 66	80 69	78 69	79 69	80 70	80 71	79 69	79 69	80 69	80 67	80 67	81 71	80 70	78 71	78 71	80 71	78 70	78 70	78.2 68.2	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	72 65	72 62	71 61	70 63	70 64		70 63	72 61	73 62	74 56	73 59	74 62	75 63	74 65	76 65	75 65	74 63	74 65	75 65	78 65	78 63	77 63	75 64	74 65	77 65	77 66	76 66	74 66	75 64	74 64	74.2 69.4	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	62 40	64 39	61 42	60 43	60 38	61 38	61 46	62 49	61 41	55 35	53 35	57 40	60 37	58 40	59 48	60 49	56 44	58 48	61 43	62 47	60 42	60 42	56 40	59 42	63 49	62 50	63 49	58 44	60 44	61 43	59.7 49.1	
HALEAKALA SUMMIT 338.4	MAX MIN	52 39	55 37	52 37	54 38	53 38	54 37	49 37	50 37	52 35	44 30	50 31	51 34	68 35	67 34	52 39	50 38	49 30	50 30	52 32	52 36	50 42	55 41	58 42	55 42	48 42	51 42	46 42	48 43	49 43	59 41	52.6 38.3	
HANA AIRPORT	MAX MIN	79 66	79 66	78 66	79 68	80 64	84 74	84 70	82 68	83 66	75 67	78 61	82 64	80 65	80 72	80 69	80 68	80 69	81 73	80 73	82 65	83 63	83 63	82 72	80 70	79 72	80 69	80 73	82 72	82 72	82 72	80.7 68.2	
KAHULUI W8 AP	MAX MIN	80 64	80 65	80 68	80 68	86 63	86 60	84 63	81 68	76 57	80 60	77 66	82 67	83 63	84 68	86 67	85 69	86 69	86 70	85 68	85 66	86 66	86 66	83 62	86 65	83 69	86 68	80 70	86 68	82 69	82 69	82.3 69.9	
KAILUA 446	MAX MIN	77 62	77 62	77 62	77 62	77 62	78 61	78 61	78 63	78 63	71 55	77 55	79 62	81 55	81 60	83 63	84 66	84 64	84 64	79 64	79 64	80 64	80 64	81 64	81 64	81 63	81 63	83 63	77 68	78 67	77 65	78.3 62.8	
KULA SANATORIUM 267	MAX MIN	71 52	68 53	72 55	74 54	72 55	69 55	70 57	72 57	68 58	65 52	65 53	72 57	76 58	71 56	69 57	70 60	68 58	69 58	69 60	72 60	72 59	72 58	74 58	71 57	71 58	70 57	71 60	69 57	68 56	71 56	70.9 56.7	
LAHAINA 361	MAX MIN	85 63	83 61	84 65	84 63	85 65	88 64	87 68	85 67	83 67	80 61	77 68	82 69	84 66	82 68	81 67	81 70	84 70	82 70	82 70	83 70	84 70	84 71	84 67	84 71	84 69	84 70	84 70	84 68	84 67	84 67	83.3 67.2	
WAILUKU 392	MAX MIN	79 66	81 69	81 69	80 70	80 68	82 67	83 70	83 69	83 65	74 60	78 61	81 70	85 65	84 68	83 70	79 68	80 71	82 70														

Continued		DAILY TEMPERATURES																														HAWAII APRIL		1968
Station		Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																		
ISLAND OF HAWAII																																		
MAINA 214	MAX MIN	74 61	78 62	78 66	77 63	79 62	80 61	81 63	81 63	81 62	77 58	71 60	74 62	82 64	82 63	81 66	75 65	75 65	79 65	80 63	81 67	80 64	83 64	83 64	80 67	77 65	79 66	74 67	77 65	78 64	80 64		78.6 63.7	
HAWAII VOLCNS NP HQ 54	MAX MIN	66 49	69 47	70 55	68 51	69 49	73 52	70 55	68 55	70 53	64 43	66 42	61 51	67 49	71 54	72 57	64 58	66 56	64 56	70 54	72 52	72 48	74 52	71 55	67 57	62 56	61 55	61 55	64 55	61 52		67.1 52.7		
HILO WB AIRPORT	MAX MIN	80 62	81 63	80 71	81 67	84 63	84 66	82 66	82 67	80 64	80 65	79 65	82 65	82 66	75 69	75 70	80 70	82 70	83 67	86 69	83 66	81 65	81 69	81 69	83 68	74 69	80 68	75 68	79 68	81 66		80.7 66.9		
KAINALIU 738	MAX MIN	78 60	79 60	81 60	80 62	79 61	78 61	79 63	82 63	77 62	73 57	68 61	79 60	79 62	79 64	78 65	75 63	75 63	80 63	80 66	81 60	79 62	79 62	80 66	78 65	76 65	74 63	75 66	78 65	74 65		77.7 62.7		
KAMUELA 192.2	MAX MIN	69 55	72 55	72 56	71 56	70 55	78 51	76 54	72 58	74 57	68 50	66 54	66 49	76 50	75 53	75 59	68 58	75 58	75 57	77 54	77 57	76 49	77 50	77 53	72 55	70 56	72 56	71 59	70 57	70 58		72.5 54.9		
KAMUELA AIRPORT	MAX MIN	70 54	72 55	71 53	71 56	72 61	72 61	73 63	73 63	74 63	68 50	69 54	68 49	74 50	75 45		73 54	72 47	72 41	74 53	72 52	74 51	73 52	74 52	71 52	71 50	71 50	72 50	72 50		72.0 51.1			
KEAAU 92	MAX MIN	79 62	81 62	81 63	80 65	81 63	83 63	83 63	83 63	82 63	87 61	82 63	88 63	88 62	88 62	88 62	74 65	75 67	81 67	83 67	88 62	88 62	88 62	85 63	79 66	81 67	79 64	77 66	77 66	79 65		82.2 64.1		
KEALAKEKUA 26.2	MAX MIN	81 62	80 61	80 62	80 63	80 63	80 62	81 64	81 64	80 63	75 56	69 59	71 62	79 64	79 63	79 64	75 63	77 62	78 63	80 66	79 61	79 63	80 62	80 62	78 66	74 65	78 66	77 65	79 65		78.2 63.0			
KOHALA MISSION 175.1	MAX MIN	74 65	77 66	77 66	75 67	77 63	79 64	79 64	79 67	79 65	78 61	74 61	79 62	82 63	81 65	80 67	77 68	75 67	80 66	77 67	81 65	81 65	81 65	80 69	76 68	78 67	76 67	77 66	78 66		78.1 65.6			
KONA AIRPORT 68.3	MAX MIN	80 62	82 62	82 64	84 66	84 64	81 63	81 65	82 65	83 68	78 61	76 64	81 67	84 65	83 66	82 66	84 71	84 68	84 70	84 68	81 71	86 68	86 70	84 72	84 70	82 70	80 70	82 69	81 69	83 69		82.3 67.1		
KULANI CAMP 79	MAX MIN	60 39	63 41	65 42	64 47	64 44	75 45	65 46	68 46	65 46	64 44	53 46	68 43	65 45	58 53	62 53	64 54	62 53	63 51	64 53	68 49	63 45	67 45	65 45	63 52	63 52	61 51	56 51	60 53	90 48		64.5 47.9		
MAUNA KEA BEACH	MAX MIN	86 66	88 67	92 69	91 68	90 67	86 68	84 69	88 70	86 68	83 65	75 66	88 66	83 65	88 65	85 72	82 71	83 70	83 69	87 68	84 71	83 65	89 68	89 70	85 68	85 71	85 72	81 72	85 73		85.4 68.7			
MAUNA LOA SLOPE 085	MAX MIN	46 31	47 29	52 32	51 32	48 31	48 32	48 33	49 33	49 30	42 28	55 35	57 38	50 34	56 38	50 34	45 36	49 37	49 35	48 32	47 34	50 31	50 32	50 36	46 33	48 36	47 36	50 37	51 36		49.1 33.8			
MOUNTAIN VIEW 91	MAX MIN	70 56	75 54	76 55	72 60	75 56	80 56	77 59	75 60	77 57	73 55	75 55	77 57	83 57	83 57	75 63	70 63	72 62	75 60	76 60	83 56	82 57	81 57	82 57	76 61	71 61	75 62	67 61	70 62		75.5 58.6			
NAALEHU 14	MAX MIN	80 61	79 63	81 64	81 64	82 66	82 66	81 66	81 66	80 66	81 59	77 66	77 66	77 66	81 66	81 63	77 68	77 66	75 66	81 66	81 66	82 63	82 63	82 63	74 65	75 67	75 67	78 66	77 66		79.2 65.1			
DOKALA 223	MAX MIN	74 64	79 63	78 66	72 67	79 65	82 65	82 65	81 65	81 65	75 68	74 64	84 65	82 67	83 71	82 66	77 66	75 68	81 68	80 67	82 72	81 66	82 66	78 67	73 66	79 66	76 66	77 66		79.2 66.2				
OPIHIKALE 2 24.1	MAX MIN	78 56	79 57	75 59	76 60	77 58	81 59	83 61	84 60	82 56	69 61	78 55	82 58	78 61	80 62	79 62	76 62	75 60	73 60	78 60	78 57	80 58	81 59	80 61	77 64	76 65	74 64	76 63	77 61		78.2 60.2			
PAHALA 21	MAX MIN	79 61	80 61	79 61	80 61	82 62	82 64	81 66	81 63	79 65	80 59	82 59	80 62	81 60	83 62	80 66	78 66	76 65	74 62	79 64	82 65	80 63	81 64	81 65	79 66	73 66	76 67	74 67		79.0 63.6				
UPOLU PT USCG 159.2	MAX MIN	79 68	80 68	82 68	81 70	80 68	82 66	82 64	82 67	82 67	82 63	74 62	77 68	83 62	82 68	82 70	83 70	83 69	83 70	81 71	81 69	81 69	83 68	83 69	83 71	83 70	82 70	81 68	81 71		81.5 68.0			

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WB AIRPORT	EVAP	.30	.29	.30	.35	.33	.33	.22	.21	.31	.34	.32	.17	.33	.10	.17	.15	.19	.27	.26	.11	.28	.18	.36	.31	.25	.11	.30	.21	.31	.25	7.61	
	WIND	154	153	192	210	178	113	69	104	123	156	92	62	80	55	74	98	63	112	102	88	77	70	147	199	218	202	176	192	194	204	39.57	
	MAX	83	83	83	84	84	87	88	89	87	75	82	83	88	85	84	80	88	88	91	88	91	86	90	87	78	76	79	83	85	84	84.6	
	MIN	63	63	63	62	62	60	60	62	61	59	60	60	63	65	65	67	65	66	68	68	62	63	68	68	68	67	66	66	65	65	64.0	
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.24	.24	.23	.27	.22	.17	.24	.25	.23	.28	.23	.22	.15	.24	.15	.12	.20	.18	.18	.12	.26	.22	.23	.21	.23	.16	.13	.23	.29	.25	6.37	
	WIND	33	36	37	60	36	20	20	29	39	62	49	36	16	18	21	19	20	16	29	15	20	19	17	38	49	53	36	43	51	48	9.85	
	MAX	91	92	91	91	90	93	97	94	94	84	89	95	91	98	87	83	90	89	92	92	98	100	96	92	88	84	82	90	93	90	91.2	
	MIN	64	64	65	66	66	67	67	69	69	64	64	69	59	70	70	71	69	70	70	73	72	71	71	73	70	70	68	68	68	69	68.2	
* * * ISLAND OF HAWAII																																	
HILO WB AIRPORT	EVAP	.31	.21	.23	.25	.22	.11	.21	.22	.23	.13	.06	.23	.25	.12	-	-	.10	.13	.17	.30	.11	.20	-	-	.22	*	*	.05	.08	.06	4.858	
	WIND	103	127	163	124	56	50	65	67	112	77	38	70	73	60	26	40	22	45	35	85	38	58	44	77	75	13	32	13	25	16	18.29	
	MAX	86	85	84	85	90	84	89	90	83	76	76	88	91	88	74	75	84	88	93	91	88	92	79	79	83	72	78	76	82	79	83.6	
	MIN	61	61	69	65	63	66	65	67	64	61	63	64	65	64	68	69	68	69	66	69	66	65	69	67	67	66	66	66	67	65	65.7	

STATION INDEX

HAWAII
APRIL 1968

STATION				OBSERVATION TIME AND TABLES				OBSERVER				STATION				OBSERVER							
INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LAITUDE	LONGITUDE	ELEVATION	TEMP	PRECIP	EVAP	SPECIAL	REMARKS	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LAITUDE	LONGITUDE	ELEVATION	TEMP	PRECIP	EVAP	SPECIAL	REMARKS
ISLAND OF KAUAI																							
ALEXANDER RESV. 983	0140	02	KOOLA	21 21 57	159 32	1610					MC BRYDE SUGAR CO.	KAHEPU 690	3130	01	LAHAINA	1 20 53	157 00	1640					DOLE COMPANY
ANOHIA 1111	A 0145	01	KAHAIHUA	21 22 09	159 19	1116					LIHUE PLANTATION CO.	KALAPALAPA HARBOR 658	A 3461	01	LAHAINA	1 20 47	157 00	1640					DOLE COMPANY
BAKES 1111	A 0145	02	KOOLA	21 21 57	159 32	1610					MC BRYDE SUGAR CO. LTD	LANAI CITY 672	S 2886	01	LAHAINA	1 20 51	156 58	1620					DOLE COMPANY
EAST LAKE 914	A 0456	02	KOOLA	21 21 57	159 30	1440					MC BRYDE SUGAR CO. LTD	LANAIHALE 688	S 5101	01	LAHAINA	1 20 49	156 53	1370					DOLE COMPANY
ELK 3 RESERVOIR 10941	0465	02	KAHAIHUA	21 22 06	159 22	350					LIHUE PLANTATION	LANAIHALE 694	A 5704	01	LAHAINA	1 20 53	156 55	1430					DOLE COMPANY
HALEKALAKA 1110	A 0935	01	KAHAIHUA	21 22 07	159 19	253					LIHUE PLTN CO LTD	MALEKA 676	S 9021	01	LAHAINA	1 20 46	156 55	1735					DOLE COMPANY
HALEKALAKA 1106	A 1038	02	LIHUE	21 22 05	159 26	400					GROVE FARM CO LTD	MALEKA 685	S 9021	01	LAHAINA	1 20 47	156 52	2040					DOLE COMPANY
HALEKALAKA TUNNEL 1053	A 1170	01	LIHUE	21 22 05	159 28	1218					LIHUE PLTN CO LTD												DOLE COMPANY
HAWAII TUNNEL 1053	A 2161	03	MAHIA	21 21 59	159 41	801					KEKAHA SUGAR CO LTD												DOLE COMPANY
QUART 945																							
ISLAND OF MAUI																							
ILITILUA INTAKE 1050	2222	02	LIHUE	21 22 02	159 28	1070					LIHUE PLTN CO LTD	MAHIA 252	A 0175	02	HANA	2 20 37	156 20	2040					ULUPALAKA RANCH
INTAKE MAININA PK 1088A	2227	01	HANAIE	21 22 09	159 34	698					KEKAHA SUGAR CO LTD	MAHIA 477	A 0541	04	LAHAINA	4 20 59	156 38	1050					MAUI PINEAPPLE CO.
KALAHUWA RES 1131	A 2974	01	HANAIE	21 22 09	159 26	400					FLANEA SUG PLTN CO	MAHIA 477	A 0790	04	LAHAINA	4 20 57	156 38	2980					MAUI PINEAPPLE COMPANY
KANAHU RESERVOIR 1075	3099	03	WAIMA	21 22 08	159 40	260					ANALOHUWU R. S.	MAHIA 477	A 1562	02	MAKAWAO	1 20 51	156 18	1850					MAUI PINEAPPLE CO.
KAPPA STAKES 1104	A 3199	01	KAHAIHUA	21 22 08	159 22	800					LIHUE PLANTATION	MAHIA 477	A 0999	01	MAKAWAO	1 20 50	156 18	1850					MAUI PINEAPPLE CO.
KEALIA 1112	A 3982	01	KAHAIHUA	21 22 06	159 19	9					LIHUE PLTN CO LTD	MAHIA 477	A 1004	02	MAKAWAO	1 20 46	156 19	17010					MAUI PINEAPPLE CO.
KEKAHA 944	A 4272	02	WAIMA	21 21 58	159 43	10					LIHUE PLTN CO LTD	MAHIA 477	A 1004	02	MAKAWAO	1 20 46	156 19	17010					MAUI PINEAPPLE CO.
KILAUHA 1134	A 4566	01	HANAIE	21 22 13	159 25	317					KEKAHA SUGAR CO LTD	MAHIA 477	A 1004	02	MAKAWAO	1 20 46	156 19	17010					MAUI PINEAPPLE CO.
KILAUHA FIELO 17 1135	A 4566	01	HANAIE	21 22 11	159 24	415					KILAUHA SUG PLTN CO	MAHIA 477	A 1004	02	MAKAWAO	1 20 46	156 19	17010					MAUI PINEAPPLE CO.
KILAUHA POINT 1133	A 4568	01	HANAIE	21 22 14	159 24	180					U S COAST GUARD	MAHIA 477	A 1122	01	HANA	1 20 45	155 59	120					HARRY HASEGAWA
KITANO 10571	A 4650	03	WAIMA	21 22 02	159 41	215					KEKAHA SUGAR CO LTD	MAHIA 477	A 1125	01	HANA	1 20 48	155 59	120					HAWAIIAN AIRLINES
KOLO 1033	A 4742	02	KOOLA	21 21 55	159 28	240					KEKAHA SUGAR CO LTD	MAHIA 477	A 1148	01	HANA	1 20 41	156 01	325					KOALI RANCH
KOLO MAUKA 994	A 4750	02	KOOLA	21 21 58	159 29	640					GROVE FARM CO LTD	MAHIA 477	A 1148	01	HANA	1 20 41	156 01	325					KOALI RANCH
KOOLAHU RES 1137	A 4758	01	KAHAIHUA	21 22 11	159 23	737					LIHUE PLTN CO LTD	MAHIA 477	A 1148	01	HANA	1 20 41	156 01	325					KOALI RANCH
KULUWA 935	A 4950	02	KOOLA	21 21 54	159 30	10					MC BRYDE SUGAR CO LTD	MAHIA 477	A 1148	01	HANA	1 20 41	156 01	325					KOALI RANCH
LIHUE VARIETY STA	5560	02	LIHUE	21 21 51	159 23	375					HAWAIIAN SUGAR PL ASSN	MAHIA 477	A 1148	01	HANA	1 20 41	156 01	325					KOALI RANCH
LIHUE W/ AIRPORT	R 5580	02	LIHUE	21 21 59	159 21	103					LIHUE PLTN CO LTD	MAHIA 477	A 1148	01	HANA	1 20 41	156 01	325					KOALI RANCH
ISLAND OF OAHU																							
MAHAUEA POINT	5785	02	KOOLA	21 21 52	159 27	52					U S COAST GUARD	MAHIA 477	A 1148	01	HANA	1 20 41	156 01	325					KOALI RANCH
MAHIA 905	A 5864	03	WAIMA	21 21 55	159 38	140					OLOLEKE SUGAR CO	MAHIA 477	A 1148	01	HANA	1 20 51	156 18	2520					MAUI PINEAPPLE CO.
MAKA 1020	A 6092	02	WAIMA	21 21 55	159 38	140					KEKAHA SUGAR CO LTD	MAHIA 477	A 1148	01	HANA	1 20 51	156 18	2520					MAUI PINEAPPLE CO.
MOHAI UP CROSS 1083	A 6439	01	WAIMA	21 22 07	159 36	350					GROVE FARM COMPANY	MAHIA 477	A 1148	01	HANA	1 20 51	156 18	2520					MAUI PINEAPPLE CO.
MOUNT MALEALE 1047	A 6565	02	WAIMA	21 22 04	159 30	5075					U S GEO. SURVEY	MAHIA 477	A 1148	01	HANA	1 20 51	156 18	2520					MAUI PINEAPPLE CO.
NIWA RIDE 1051	A 6850	03	WAIMA	21 22 02	159 44	1250					KEKAHA SUGAR CO LTD	MAHIA 477	A 1148	01	HANA	1 20 51	156 18	2520					MAUI PINEAPPLE CO.
N WAILUA BRIDGE 1051	A 6850	03	WAIMA	21 22 02	159 44	1250					LIHUE PLTN CO LTD	MAHIA 477	A 1148	01	HANA	1 20 51	156 18	2520					MAUI PINEAPPLE CO.
N WAILUA RIVER 1055	A 6893	01	LIHUE	21 22 04	159 28	650					LIHUE PLTN CO LTD	MAHIA 477	A 1148	01	HANA	1 20 51	156 18	2520					MAUI PINEAPPLE CO.
ISLAND OF MAUI																							
PH WAINIMA 1115	A 8155	01	HANAIE	21 22 12	159 34	101					MC BRYDE SUGAR CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
PRINCEVILLE RANCH 1117	A 8165	01	HANAIE	21 22 13	159 29	295					PRINCEVILLE RANCH	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
PUNE RIDGE 1117	A 8165	01	HANAIE	21 22 13	159 29	295					KEKAHA SUGAR CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
PUNE RIDGE 1117	A 8165	01	HANAIE	21 22 13	159 29	295					GROVE FARM CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
RESERVOIR 1004	A 8573	02	LIHUE	21 21 57	159 27	420					GROVE FARM CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
RESERVOIR 10551	A 8573	02	LIHUE	21 21 57	159 27	420					LIHUE PLANTATION CO.	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
WAINIMA 930	A 8941	02	KOOLA	21 21 54	159 34	215					MC BRYDE SUGAR CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
WAINIMA MOUNTAIN 990	A 8949	02	KOOLA	21 21 58	159 31	2100					MC BRYDE SUGAR CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
WAINIMA MOUNTAIN 990	A 8949	02	KOOLA	21 21 58	159 31	2100					MC BRYDE SUGAR CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
WAINIMA MOUNTAIN 990	A 8949	02	KOOLA	21 21 58	159 31	2100					MC BRYDE SUGAR CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
WAINIMA MOUNTAIN 990	A 8949	02	KOOLA	21 21 58	159 31	2100					MC BRYDE SUGAR CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
WAINIMA MOUNTAIN 990	A 8949	02	KOOLA	21 21 58	159 31	2100					MC BRYDE SUGAR CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
WAINIMA MOUNTAIN 990	A 8949	02	KOOLA	21 21 58	159 31	2100					MC BRYDE SUGAR CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
WAINIMA MOUNTAIN 990	A 8949	02	KOOLA	21 21 58	159 31	2100					MC BRYDE SUGAR CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
WAINIMA MOUNTAIN 990	A 8949	02	KOOLA	21 21 58	159 31	2100					MC BRYDE SUGAR CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
WAINIMA MOUNTAIN 990	A 8949	02	KOOLA	21 21 58	159 31	2100					MC BRYDE SUGAR CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
WAINIMA MOUNTAIN 990	A 8949	02	KOOLA	21 21 58	159 31	2100					MC BRYDE SUGAR CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
WAINIMA MOUNTAIN 990	A 8949	02	KOOLA	21 21 58	159 31	2100					MC BRYDE SUGAR CO LTD	MAHIA 477	A 8155	01	HANAIE	21 22 12	159 34	101					MAUI PINEAPPLE CO.
WAINIMA MOUNTAIN 990	A 8949	02	KOOLA	21 21 58	159 31	2																	

STATION INDEX

HAWAII
APRIL 1968

APRIL 1970												
STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 28	A 6697	0A	S. KONA	4	19 28	155 55	395	7A				KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400	VAR				HAWAII VOLCANOES NAT PA
NIULII 179	A 6808	01	N KOHALA	1	20 14	155 45	75	6A				KOHALA SUGAR CO
PAHALA 229	7131	02	S HILO	2	20 01	155 17	430	7A	7A			LAUPAHOE SUGAR CO
DFIHHALLE 2 24.1	7146	0A	S KONA	4	19 16	155 53	1270	7A				MISS C LEONARD
ORCHID LANE EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445	VAR				BOARD OF WATER SUPPLY
PAAHUHU 217	7204	01	HAMAKUA	1	20 05	155 26	415	7A				PAAHUHU SUGAR CO
PAAVILO 221	7312	01	HAMAKUA	1	20 03	155 22	800	7A				HAMAKUA HILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PANOA 65	7657	02	PUNA	2	19 30	154 57	670	8A				PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000	MO				HAWAIIAN RANCH CO, INC.
PAPAIAKOU 144-1	7711	02	S HILO	2	19 47	155 06	200	7A				MAUNA KEA SUGAR CO.
PAPAIAKOU MAUKA 140-1	7721	02	S HILO	2	19 47	155 08	1270	7A				MAUNA KEA SUGAR CO.
PEPEKEO MAKA 144	8000	02	S HILO	2	19 51	155 05	100	7A				PEPEKEO SUGAR CO
PIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730	MO				STATE DIV OF FORESTRY
POMAKULOA 107	A 8064	02	HAMAKUA	2	19 45	155 32	4511	VAR				STATE DIVISION OF PARKS
PUAKO 95-1	8186	05	KOHALA	5	19 59	155 50	5	6A				ERWIN M. RAPP
PUU KIHU 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750	MO				KUKAIAU RANCH CO
ISLAND OF HAWAII												
PUU LAU 102-1	A 8452	05	HAMAKUA	5	19 50	155 36	7440	MO				STATE DIV OF FISH-GAME
PUU LEMUA 73	A 8460	04	N KONA	4	19 34	155 49	4880	MO				GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960	MO				KUKAIAU RANCH CO
PUUOKUMU 187	A 8548	01	N KOHALA	1	20 12	155 50	1800	7A				KOHALA DITCH CO LTD
PUU OO 82	A 8550	02	S HILO	2	19 44	155 23	6340	6A				W. M. SHIMMAY, LTD
PUU WAAMAA 94-1	A 8555	05	N KONA	5	19 47	155 51	2520	7A				OILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340	WM				BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	400	WI				HUTCHINSON SUGAR CO
S POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	305					FEDERAL ELECTRIC CORP
UNIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420	7A				KUKAIAU RANCH CO
UPOLU POINT USCG 159-2	8830	01	N KOHALA	1	20 15	155 53		BA	8A			U S COAST GUARD
WAIAKEA SCD 88-2	9025	02	S HILO	2	19 40	155 08	1050	7A				SHINICHI KANEHIRO
WAIRANONULUA 176-6	9350	01	N KOHALA	1	20 08	155 47	3830					KAMUA RANCH

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates.

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletin for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

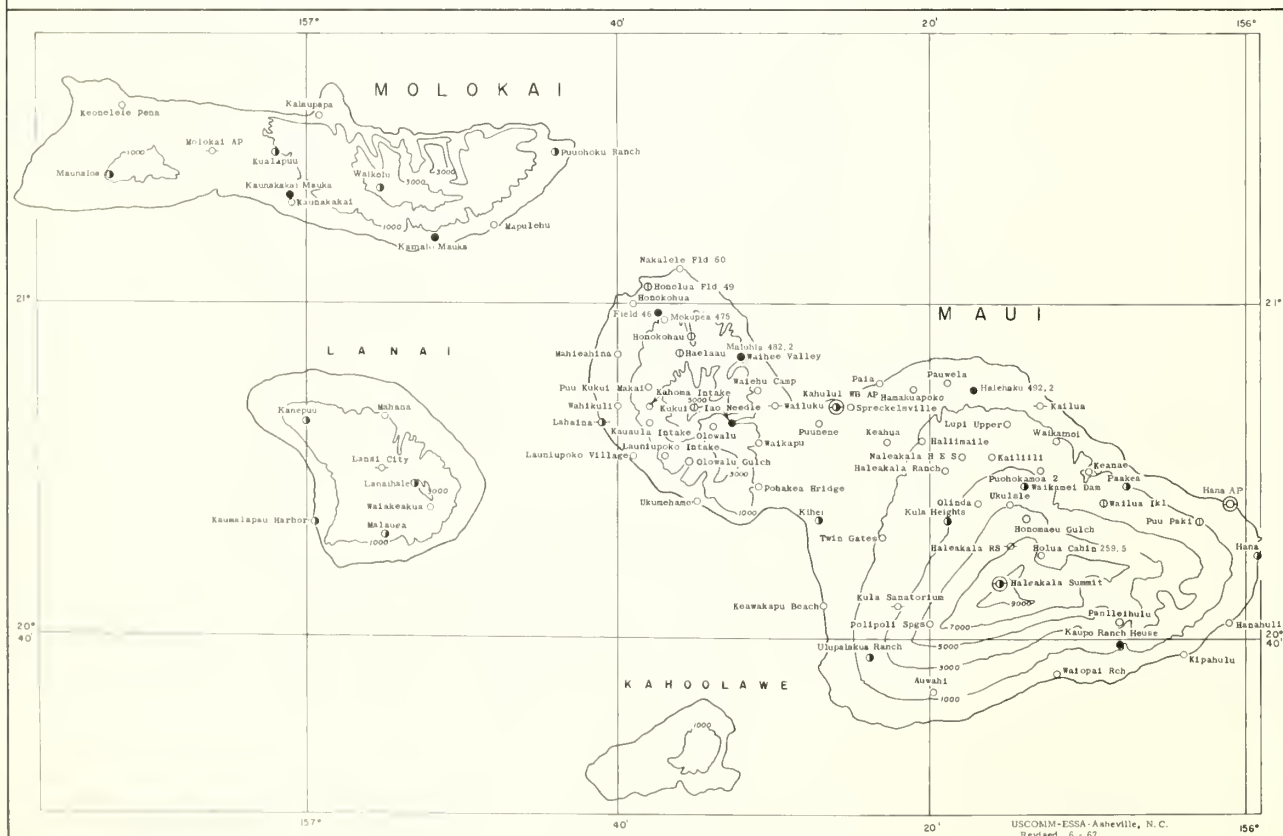
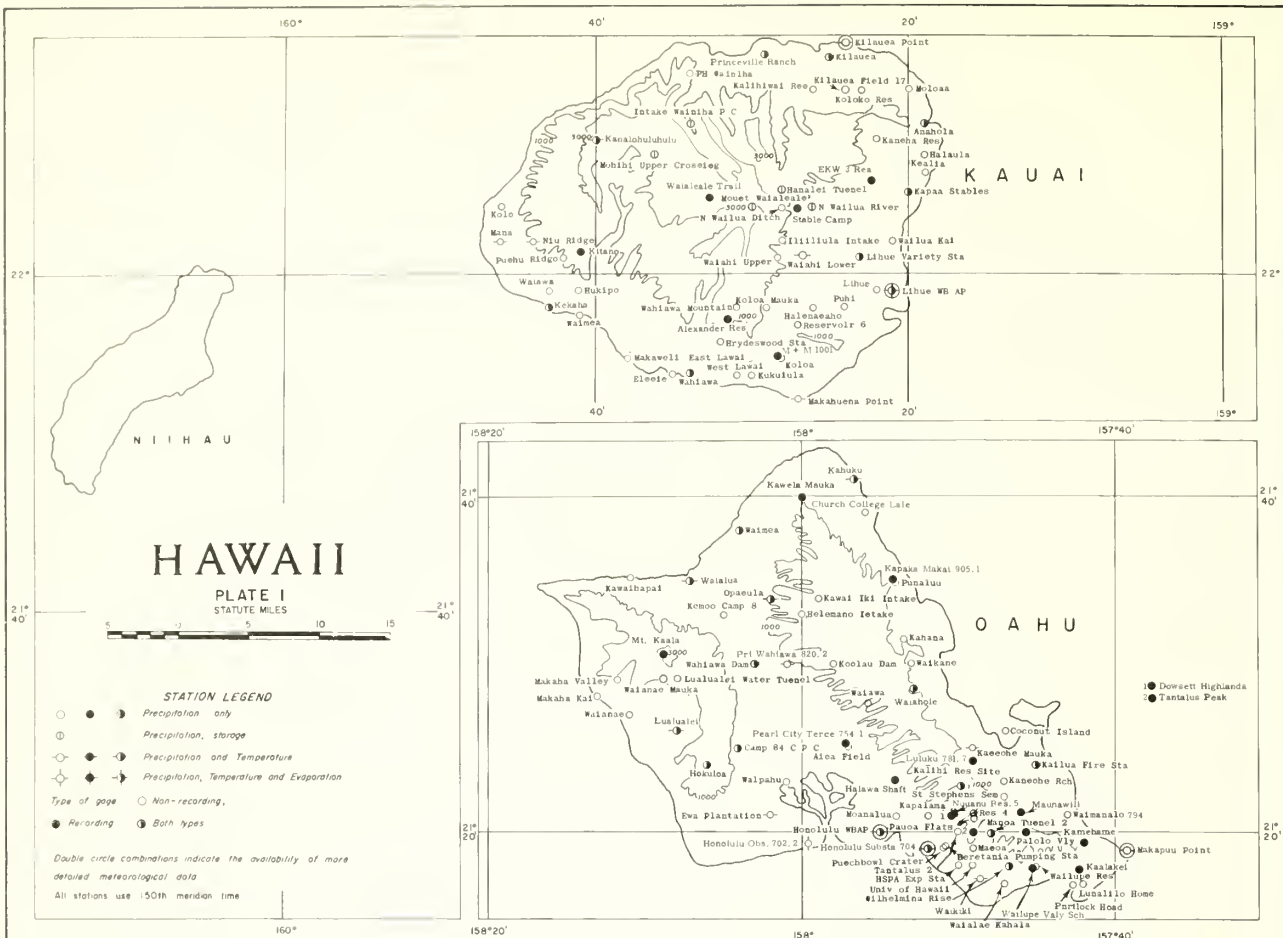
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Resilience and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

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CLIMATOLOGICAL DATA

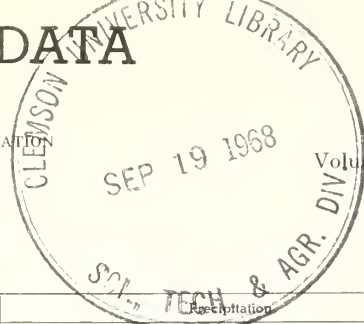
U.S. DEPARTMENT OF COMMERCE
C. R. SMITH, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

MAY 1968

Volume 64 No. 5

CLIMATOLOGICAL DATA



Station	Temperature										Precipitation															
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest Date	Lowest Date	Degree Days	No. of Days					Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
								Max. Min.									Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	10 or More	50 or More	100 or More
								60° or Above	50° or Above	40° or Above	30° or Above	20° or Above														
* * * ISLAND OF KAUAI																										
ANAHOLA 1111	A												1.36	- 1.59												
KANALOHULU 1075	A	70.9	51.0	61.0		78 19	45 31+		0	0	0	0	.54		.20	5	.0	.0		1	0	0				
KAPAA STABLES 1104	A												1.56				.0	.0								
KILAUEA FIELD 17 1135	A												3.24	- 4.35			.0	.0								
KILAUEA POINT 1133		80.9	69.6	75.3		86 25	66 10+		0	0	0	0	1.94		.26	28	.0	.0		8	0	0				
KOLUA 936	A												1.78	- 2.57			.0	.0								
LIHUE WB AIRPORT 1020.1	R	79.9	68.5	74.2	-.3	83 28	62 11		0	0	0	0	.42	- 2.17	.19	4	.0	.0		1	0	0				
MANA 1026		86.4	64.8	75.6	.9	91 30	60 20		2	0	0	0	.13	- .77	.10	27	.0	.0		1	0	0				
N WAILUA OITCH 1051	A												6.89				.0	.0								
PH WAINIMA 1115													5.90	- 3.26	2.78	11	.0	.0		7	4	1				
PUEHU RIDGE 1040													.45		.45	9	.0	.0		1	0	0				
WAIHANA 930	A												.17	- 1.33			.0	.0		0	0	0				
WAIHAI LOWER 1054		79.2	62.5	70.9		83 31+	55 17		0	0	0	0	2.70		.57	2	.0	.0		8	2	0				
WAIHEA 947.													.00	- .85	.00		.0	.0		0	0	0				
ISLAND																										
1.93																										
* * * ISLAND OF OAHU																										
HONOLULU OBSERV 702.2																										
	R	85.5	71.3	78.4	2.5	91 22	66 7+		3	0	0	0	1.49		1.43	10	.0	.0		1	1	1				
HONOLULU WBFC 703	A	81.9M	70.3M	76.1M	1.2	86 31	64 7		0	0	0	0	1.22	-.23	1.06	10	.0	.0		2	1	1				
KANEHE MAUKA 781		80.9	69.7	75.3	1.1	85 31+	65 11		0	0	0	0	3.09	- 1.46	1.27	10	.0	.0		5	2	1				
KOOLAHI OAM 833													2.36	- 3.75	.83	10	.0	.0		6	1	0				
LUALUALEI 804		83.0	71.0	77.0		88 28	63 6		0	0	0	0	.84		.84	10	.0	.0		1	1	0				
MAKAPUU POINT 724		79.3	71.1	75.2		84 25	66 10		0	0	0	0	3.33	- 2.30	1.42	10	.0	.0		5	3	1				
NUUANU RES 4 783													3.96	- 5.87			.0	.0								
OPAEULA 870	A	80.5	64.9	72.7	2.9	84 29+	59 8+		0	0	0	0	1.36	- 1.92	.40	10	.0	.0								
PALOLO VALLEY 718													4.36	- 7.76	.70	17	.0	.0		11	3	0				
PRI WAILANA 820.2	A	83.7	64.1	73.9		88 31	57 7		0	0	0	0	1.26		1.06	10	.0	.0								
PUNAHUU 884	A												3.90		1.52	10	.0	.0								
WAILANA OAM 863	A												1.38		1.22	10	.0	.0								
WAIHOLE 837	A												4.81	- 7.34	1.32	10	.0	.0								
WAILUA 847	A	83.8	64.5	74.2	.6	89 29+	59 7		0	0	0	0	1.08	-.02	.81	11	.0	.0		2	1	0				
WAIKIKI 717.2		85.6	70.1	77.9		89 25	65 19+		0	0	0	0	.54		.32	10	.0	.0		2	0	0				
WAIPIAHU 750	A												1.12	- .08	.81	10	.0	.0								
ISLAND																										
2.22																										
* * * ISLAND OF MOLOKAI																										
KUALAPUU 534																										
	A												1.23	-.35	.76	10	.0	.0								
MAPULEHU 542													1.41	- 1.30	.77	9	.0	.0		3	1	0				
MAUNALOA 511	A												.80	-.67	.60	10	.0	.0		2	1	0				
MOLOKAI AP 524		80.7	68.9	74.8		85 29+	65 7		0	0	0	0	1.14		.63	10	.0	.0		3	1	0				
ISLAND																										
74.8																										
* * * ISLAND OF LANAI																										
LANAI CITY 672																										
	A	76.6	64.0	70.3	1.8	82 25	61 25+		0	0	0	0	2.22	-.45	.74	10	.0	.0		5	2	0				
ISLAND																										
2.22																										
* * * ISLAND OF MAUI																										
HALEAKALA B E S 434																										
	A	64.5	45.8	55.2		72 24	39 5		0	0	0	0	2.63	- 1.77	1.16	10	.0	.0		4	2	1				
HALEAKALA RS 338													2.30		1.42	10	.0	.0		3	2	1				
HANA AIRPORT 355		82.6	68.8	75.7		89 25	61 4		0	0	0	0	4.24		.87	10	.0	.0		8	4	0				
HONIKOHUA 493	A												2.12	-.14	.67	10	.0	.0								
KAAHAPALI AIRPORT		84.3	68.4	76.4		89 26	63 7+		0	0	0	0	1.11		.73	10	.0	.0		2	1	0				
KAMULUI WB AP 398	R	84.8	65.2	75.0	-.3	91 30	57 7+		5	0	0	0	2.58	- 1.87	1.99	10	.0	.0		3	1	1				
KAILUA 446		78.4	65.1	71.8	1.4	81 30+	61 19+		0	0	0	0	3.61	- 6.31	.78	10	.0	.0		9	2	0				
KEANAE 346	A												9.60	-11.90			.0	.0								
KIPAHUU 258													7.05	-.89	3.85	11	.0	.0		8	3	1				
KULA SANATORIUM 267		72.2	56.3	64.3	.8	76 23	51 7+		0	0	0	0	2.20	-.10	1.12	11	.0	.0		2	2	1				
LAHAINA 361		85.4	66.8	76.1		88 23+	63 7+		0	0	0	0	1.42	1.07	.92	10	.0	.0		2	2	0				
PAIA 406													2.34	.23	1.44	11	.0	.0		2	2	1				
WAILUKU 392		83.3	69.8	76.6	2.2	88 31+	65 6		0	0	0	0	2.42	1.16	1.47	11	.0	.0		3	2	1				
ISLAND																										
71.4																										

See Reference Notes Following Station Index

CLIMATOLOGICAL DATA

Continued

HAWAII
MAY 1968

Station		Temperature										Precipitation																	
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
											Max.		Min.							Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											30° or 31° or Below	32° or Below	32° or Below	0° or Below															
ISLAND OF MAUI																													
MAUI 214		81.1	64.6	72.9	1.5	85	31+	60	17		0	0	0	0	7.12	2.20	3.15	20	.0	0		8	4	2					
MAUI VOLCAN NP HQ 54		70.2	53.6	61.9	1.3	76	18	49	17+		0	0	0	0	6.55	.48	2.45	12	.0	0		9	4	2					
HILLO W8 AIRPORT 87		82.9	68.4	75.7	2.7	87	30+	64	17		0	0	0	0	2.71	- 6.62	.43	19+	.0	0		8	0	0					
HUEHUE 93.1															4.94	.27			.0	0									
KAINALIHI 73.2		79.1	64.2	71.7		82	26+	59	7+		0	0	0	0	5.07	- 2.63	1.94	28	.0	0		9	3	1					
KAMUELA AIRPORT 191		74.2	53.5	63.9		78	26+	45	11		0	0	0	0	1.38		.57	20	.0	0		4	1	0					
KEAAU 92		83.5	64.4	74.0	1.5	88	27+	58	13+		0	0	0	0	4.52	- 5.36	.78	20	.0	0		11	3	0					
KEALAKEKUA 26.2		79.5M	64.3M	71.9M		82	20+	60	6		0	0	0	0	2.41		.35	31+	.0	0		7	0	0					
KONA AIRPORT 68.3		83.5	67.6	75.6		87	19	61	19		0	0	0	0	2.54		.89	27	.0	0		5	3	0					
KUKUIHALE HIC 199															7.41	.70	2.20	20	.0	0		11	5	3					
KULANI CAMP 79		66.7	48.4	57.6		72	28+	40	25+		0	0	0	0	6.38		2.00	20	.0	0		11	4	2					
MAUNA KEA BEACH 98		86.5	70.5	78.5		93	21	67	7+		2	0	0	0	.88		.39	12	.0	0		3	0	0					
PAHALA 21		80.1	64.2	72.2	1.2	84	26+	56	5		0	0	0	0	3.23	.91	2.17	13	.0	0		3	2	1					
POHAKULOA 107															.10		.10	13	.0	0		1	0	0					
PUAKO 95.1															.60		.19	31	.0	0		3	0	0					
PUU WAHAA 94.1															3.67	.94			.0	0									
UMIKOA 118															9.71	4.65			.0	0									
UMIKOA 118																													
WAIKAEA SCO 88.2															7.67		2.55	20	.0	0		12	4	2					
ISLAND				70.5											4.27				.0										

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 93° ON THE 21ST AT MAUNA KEA BEACH 98, HAWAII

LOWEST TEMPERATURE: 30° ON THE 3D AT MAUNA LOA SLOPE OBS., HAWAII

GREATEST TOTAL PRECIPITATION: 16.46 INCHES AT HONOKANE 181.1, HAWAII

LEAST TOTAL PRECIPITATION: .00 INCH AT 2 STATIONS, KAUAI

GREATEST ONE-DAY PRECIPITATION: 4.10 INCHES ON THE 12TH AT HANAHULI 281, MAUI

See Reference Notes Following Station Index

DAILY PRECIPITATION

HAWAII
MAY 1968

Station		Total	Day of Month																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF KAUAI																																	
ANAMULA 1111	A	1.36	.02	.12			.25			.01	.12	*	*	.59								.06	.02	.01				.01		.14		.04	
ORYOESWOOD STA 985	A	.74	.13	.05			.27			.01	.03	T										.01	.02	.01				.20					
EAST LAHAI 934	A	1.58	.23	.25	.05		.61	.05		.04	.02											.05	.06	.02				.18					
ELEELE 927	A	.16					.08																					.08					
HALEAULA 1110	A	1.90	.10	.12			.35			.04	.10	T	*	.60								.05	.02	.04				.04	.41		.03		
HALENAHANO 1006	A	2.35	.51	.37			.53			.30	.23						.04	.08	*			.05	.06					.18					
HUKIPO 945	A	.18								.10																		.08					
ILILIULUA INTAKE 1050	A	3.84	.80	.60	.04	.20	.30	.03		.30	.10	.25	.05	.35	.03	.03	*	.05			.10	.40	.15	.07		.08			.26	*	.06		
INTAKE WAINIMA PC 1086	A	5.19	1.38	*	.56					.37	.12	*	*					.27	*		.03	*			.27								
KALIMAIWA RES 1131	A	4.08	.23	.22	.07		.92	.06		.03	.17	*	*	1.52	.04	.06		.04	*		.05	.17	.01	.04	.01	*	*	.42	.02	*			
KANALOHULULU 1075	A	.54	.05			.08	.20														.12	.07	.08		.02		.07		.01	.04	.02		
KANEHA RESERVOIR 1092	A	3.11	.32	.22	.04		.79	.04		.33	.05	*	*	.52	.02	.30		.04	*		.12	.07	.06	.03			.07		.01	.04	.02		
KAPAA STARLES 1104	A	1.56	.13	.09			.35			.30	.07	*	*	.28			.01				.10	.13					.10						
KEALIA 1112	A	1.87	.08	.04			.26			.08								.03	*		.05	.01	.06				.05	.01	.36		.02		
KEKAHA 944	A	.20																									.11						
KILAUEA 1134	A	2.44	.23	.03	.01	*	.47	.01		.07	.22	*	*	.65		.11			*		.06	.06	.05	.09	.02	*	*	.36					
KILAUEA FIELD IT 1135	A	3.24	.18	.18			.68	.02		.08	.12	*	*	1.32	.01	.11		.07	*		.11	.06	.01	.10	.03		.20	.07					
KILAUEA POINT 1133	A	.00	.07		.20	.10	.11		.08	.20	.24					.07	.04			.08	.03	.07			.25	.12	.26	.02					
KOLO 1033	A																																
KOLOA 936	A	1.78	.37	.13	.07	*	.76			.05	.02							.02	*		.07	.05				*	*	.24					
KOLOA MAUKA 994	A	2.15	.31	.31		*	.55			.65	.12	*	*					.08	*		.06	.07				*	*						
KOLOKO RES 1137	A	4.40	.48	.37	.01	*	.86	.03	.01	.27	.34	*	*	1.40				.02	.08	*		.13	.05	.01	.12	*	*	.19	.06	.03	.01	.01	
KUKULUA 935	A	.80	.14	.05	.01	*	.27			.05											.03	.02				*	*	.03					
LIHUE VARIETY STA	A	1.62	.21	.17		.22	.21	.03	.01	.18	.06	*	*	.06	.01	.05		.02	.12	*		.15	.04	.04	.02	*	*	.02					
LIHUE 1020	A	.62	.03	.04	.01	*	.23			.17	.01	*	*	.01							.09					*	*	.03					
LIHUE WB AIRPORT 1020.1 R	A	.62	.03	T		.19		T	.06	.02	T	T					.07				.05				T	T	.12						
MAKAHUEVA POINT 940.1	A	.04	.12		.02	.03	.10			.22	.03										.02												
MAKAHUEVA 965	A	.09																									.07						
MANA 1026	A	.13								.03																							
MOHIMI UPR CROSS 1083	A	.80	.16			.40	.08														.08	.08						.10					
MOLOAA 1145	A	1.87	.09	.04		*	.38			.10	.04	*	*	.57					*		.09	.01	.01		.01		.08		.45				
MOUNT MAIALEALE 1047	A	13.17	3.58	.95	.47	3.35	.28	.16	.20	.24	.12	.12	.04	*			.24	*	*	1.14	.91	.47	.24	.12		.08	.12		.94				
NIU RIGGE 1035	A	.14								.14																							
N WAILUA OITCM 1051	A	6.89	.92	.76	.11	*	.90			.90	.60	*	*	.50	.16	.10		.03	.16	*		.10	.47	.30	.11	T	*	.20		.70			
PH WAINIMA 1115	A	5.95	.78	.59	.01	.35	.78	.03			.18	.28	*		.05	.03			.02	*		.04	.19	.02	.01	T	*	.01					
PRINCEVILLE RANCH 1117	A	3.31	.41	.30	*	*	.73			.04	.05	.92	.02					.05			.09	.11	.15	.11	.02		.12	.19					
PUEHU RIGGE 1040	A	.45								.45																							
PUEHU 1013	A	1.08	.06	.09	*	*	.36			.42	.05	*	*	.02			.06	.12	*	*	.11	.03				*	*	.04					
RESERVOIR 6 1004	A	2.08	.38	.20	*	*	.48			.78	.09							.06			.05	.04											
WAIKANA 930	A	.17	.03	T	.01	*	.08			.02											T					*	*	.03					
WAIKANA MOUNTAIN 990	A	2.38	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.38
WAIKANA LOWER 1054	A	2.70	.55	.57	.02	.39	.10			.23	.07	.06	*	*		.03		.03	*	*	.08	.17	.06	.02		.20	.10		.02	*			
WAIKANA UPPER 1052	A	3.08	.85	.64	.54	.17				.06	.09	.03	.03								.02	.19	.05	.02		.03	.15	.05	.12				
WAIKANA 943	A	.60								.50																							
WAILUA KAI 1065	A	1.11	.09	.08	*	*	.24			.31	.13	*	*	.04			.05	*	*	*	.10		.07										
WAIKANA 947	A	.00																															
WEST LAHAI 931	A	.85	.13	.11	.02	*	.27			.24	.01						.01	*	*	*	.03	.01				*	*	.02					
ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	2.18								.15	1.53	*	*	.44															.06				
BERETANIA PUMPING STA	A	1.06	T	T						.05	.34	.47	*									.01							.14				
CAMP 84 807	A	1.62								.08	1.41	*	*	.04								.02	.03						.08				
CHURCH COLLEGE LAIE	A	2.34		.14	.09		.04	.03	T	.73	.84	*	*	T	.10							.02	.03	.01	.04	.05	T	.14	T	.07	.02		
COCONUT ISLAND 840.1	A	2.93	.12					.04	.04	1.48	1.03	.01			.01						.02	.04	.03										
EWING PLANTATION 741	A	1.42								.05	1.10	.27	*																				
HELEMANU INTAKE 881	A	1.67	*	*	.05		*	*	*					1.15	*	*	.08	*	*	*	*	*	*	.21	*	*	*	*	.18	*	*	*	
HONOLULU 725.2	A	1.55	*	*	*		*	*	*					1.49	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	.06	
HONOLULU OBSERV 702.2	A	1.49								.02	1.43	.04	T																				
HONOLULU WPC 703	R	1.22	.01	T	T	T	T	T	T	.12	1.06	T					T							.02		T							
HONOLULU SUBSTA 704	A	.85								.03	.12	.48										.06		.05									

HAWAII
MAY 1968

HAWAII
MAY 1968

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DAILY PRECIPITATION

Continued

HAWAII
MAY 1968

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAMUELA 192.2	2.90		.03	.10	.07	.02	.03				.03	.06	.27	.10			.06			.57	1.37	.10				.02	.02			.03	.02		
KAMUELA AIRPORT 191	1.38	T			.03	T					.06	T	.21	.12	T		T			.32	.57	T				T				.03	.02		
KAPAPALA RANCH 36	7.13		.05	.10									1.74	2.40	.07				.04	.57		1.50	.15						.04	.02			
KAPOHO LANDING 93.5	8.37			3.28					.04	.07	1.12								2.50						1.12			.25	.09			.35	
KAUHANA 88.1	8.76	.56	.82	.15	.24	.08	.02					.61	.04	.67	.04	.05	.04			1.63	3.02	.36						.14	.20	.05	.01	.03	
KAWAHU LOWER 193	24.42			4.30							1.02						3.60														1.20		
KEAAU 92	4.52	.17	.67	.25	.05	.02	.13	.02			.02	.05	.16	.42	.03	.08	.09			.50	.78	.45	.03		14.30			.43	.08	.01		.10	
KEALAEKUA 26.2	2.41	.01		.06	T	.01				.04	.02	.24	.26			.09	.07				.09	.22	.35	T		T		.04	.25	T	.31		
KEWENA 181.2	7.67																														7.67		
KIOLA KAA A F 6	5.10																														5.10		
KIPA 89.2	8.66	.22	.94	.38	.50	.06	.06	.01	.01	T	.15	.05		.45	.17	.04	.21	T		1.80	2.65	.51						.02	.45	.07		.06	
KOMALA 179.1	1.70	.05	.15	.19			.11				.09			.27	.05	.01					.62	.01							.07	.02			
KOMALA MAULILI 176	3.37	.05	.10	.28			.15				.09			.65	.16		.01				1.90	.01			.01				.25	.05			
KOMALA MISSION 175.1	2.49	.06	.20	.18	.03	.11	.01				.21	.15	.04	.11	.05		T			.42	.44	T							.25	.03			
KOJANE LOWER 198	16.44			2.90							.58						3.04									9.50						.42	
KONA AIRPORT 68.3	2.54									.01	.01	.13	.56		.01						.10	.68	.01	T				.89	.05	.05		.04	
KONA VILLAGE 93.8	.39									.04	.12			.05							.05						.03	.10					
KUKAIAU 222	9.22	.10	.10	.64	.36	.12	.01				.05			2.59	.86	.26	.18	.01	.08	1.77	1.89	.20											
KUKUIMAELE HIC 199	7.41	.02	.10	.56	.05	.16	.10				.04	.06		1.40	.50	.10	.29			1.64	2.20	.14											
KUKUIMAELE MILL 206	5.02	.02	.10	.40			.32				.05			1.30	.16	.02	.17	.07			2.22	.16							.03				
KULANI CAMP 79	6.38	.17	.20		.06	.01	.05	.03	.03	.10		.60	.46	1.08	.75	.08	.02			.49	2.00	.10						.10			.05		
KULANI MAUKA 76	2.18	.05	.03						.10		T	.75	.44	.09			2.96	.05		.45	.22										.75		
KULANI SCHOOL SITE 78	9.83	2.90	.40								.25			.12	.30					.33	.33				2.57		.09		.30	.43		.05	.17
LANIHU 68.2	2.65	.22			.03							.12	.30			.17	.11			.30											T	.19	
MANUKA 2	1.69	.18					.01							.72	.04	.02	.10			.30				.02									
MAUNA KEA BEACH 98	.88	.04									.10	.03	.39		.18	.06	.69			.03	T								.28		.11		
MAUNA LOA SLOPE 085	1.59								.36	.12			.18		.06	.69				.07									.30				
MIDDLE MOHUALOA 68.1	.84											.33																					
MIDDLE PEN 147.1	4.98																															1.95	
MOAULA 18	2.00																															2.00	
MOUNTAIN VIEW 91	8.29	.62	.40	.08	.09	.05	.25	.03			.02	.11	.35	.88	.20	.04	.12			1.48	2.35	.56						.12	.41	.06		.07	
NAALEHU 14	1.62	T										.58		.51	.01	T		T			.40	.01							.01				
NAPOOROD 28	1.39						.13							.36							.28									.62			
NAULU FOREST 38.6	3.06	.16			.02						.29						1.29					1.22							.05	.02			
NIULILI 179	1.95	.01	.15	.20			.16				.10			.32	.10		.01				.78												
OOKALA 223	7.42	.20	.20	.66	.35	.06	.03				.02			3.38	.08	.09	.22	T		.80	1.01	.21							.11				
OPPIHIALE 2 24.1	2.97	.62	T					.03	T		.23	.94		.02	.01	.10	.03			.02	.71	.05							.15	T	.02	.09	.42
ORCHIO LANO EST 91.5	12.78			7.25							.19						2.76															.46	
PAALUHAU 217	6.05	.04	.02	.52	.11	.19	.04				.01			1.59	.36	.06	.14		.01	.60	2.28	.06							.02				
PAALUO 221	8.52	.07	.05	.71	.27	.15	.02				.12			1.84	.65	.10	.14	.01	.01	1.65	2.60	.13											
PAMALA 21	3.23									.03		.06	.25	2.17							.67	.01										.04	
PAMOA 65	8.97	.81	.45	.05	.06	.03	.15				.35	1.15	2.91	.02		.17				.74	1.15	.34	.04	.05					.27	.12	.04	.04	
PAKAO 37	5.00																															5.00	
PAPAIAU 144.1	2.85	.06	.49	.28	.13	.02	.01				.05	T		.39	.05	.05	.04			.04	.69	.27							.12	.16			
PAPAIAU MAUKA 140.1	7.68	.18	.09	1.13	.18	.13	.03	T		T	.01	.06		.53	.24	.08	.20			1.15	1.93	.26							.17	.26	.05		
PEPEKEO MAKAI 144	3.53	.16	.51	.52	.01	.11	.05	.01				.25		.25	.02	.10	.19			.12	.69	.17						.30	.03		.02	.02	
PIIHUNUA 89	9.40																															9.40	
POMAKUOA 107	.10													.10																			
PUAKO 95.1	.60	.12									.01	.02	.17	.01								.01										.07	
PUU KIME 120	5.09																															5.09	
PUU LAU 102.1	2.10																															2.10	
PUU LEHUA 73	3.80																															3.80	
PUU MALI 113	1.49																															1.49	
PUUKUHAI 167	4.48	.03	.03	.29							.12			.55	.10	.01	.01				2.85	.03			.01				.33	.02			
PUU OD 82	4.66	.23	.25	.05	.10	.04	.04	.03	.04	.05				1.05	.04	.74	.03			.02	1.55	.11				.10	.05		.06			.07	
PUU HAAWAA 94.1	3.67	1.12								.02	.05			1.78		T		1.00			.63									.05		.02	
SAOOLE ROAD 1 84	10.92			10.80							.50																					.42	
SOUTH POINT CORRAL 3	3.40				.20							1.38					.07				1.75												
UMIKOA 118	9.71	.02			.43		.19		.01					2.76	.41	.16	.33				5.40												
UPOLU POINT USCG 159.2	2.03	.04	.09	.13								.40	.40	.02						.32	.40								.13				
WAIKAEA SCO 88.2	7.67	.18	.55	.10	.05	.02	.03				.28	T		.61	.16	.02	.08			2.36	2.55	.22						.15	.11		.20		

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages - percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	160TH MERIDIAN TIME				Trace	01-09	10-49	50-99	100-199	200 and over	Total		
							2 AM	8 AM	2 PM	8 PM									
HILO, HAWAII, WB AIRPORT	11	0.8	6.6	20	SE	25+	84	76	67	80	9	10	8	0	0	0	26	47	7.5
HONOLULU, OAHU, WB AIRPORT	5	7.7	9.9	27	NF	02	74	65	54	67	11	3	1	0	1	0	16	58	6.3
KAHULUI, MAUI, WB AIRPORT	4	8.9	10.6	28	NF	21	89	73	59	77	9	2	2	0	1	0	14	62	5.7
LIHUE, KAUAI, WB AIRPORT	4	7.6	9.3	23	E	02	87	81	71	82	6	5	1	0	0	0	12	44	6.0

DAILY TEMPERATURES

HAWAII
MAY 1969

Station		Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	69 55	71 55	69 57	64 55	62 53	63 48	65 47	68 48	68 51	68 50	70 48	70 50	72 50	72 52	71 52	72 54	72 45	73 47	78 48	76 50	75 58	73 59	75 57	76 57	73 47	70 49	72 50	73 47	72 48	74 48	72 45	70.9 51.0	
KILAUEA POINT 1133	MAX MIN	80 70	79 68	76 67	74 66	78 66	80 66	79 70	80 68	79 68	73 66	78 67	80 70	82 71	80 70	79 69	82 68	78 68	82 72	83 71	84 69	83 72	84 67	85 74	84 71	86 73	83 71	83 72	83 72	81 71	84 71	85 72	80.9 69.6	
LIHUE WB AIRPORT 1020.1	MAX MIN	79 71	79 71	78 71	74 70	77 67	79 69	78 69	79 65	79 67	78 65	78 62	80 64	79 68	80 71	78 68	79 68	79 63	81 65	81 70	82 71	82 71	81 71	82 72	82 73	82 73	82 71	82 70	82 72	82 68	82 69	82 68	79.9 68.5	
MAKAHUEA POINT 940.1	MAX MIN	82 71	81 71	80 71	81 70	80 67	80 69	81 69	83 68	84 67	81 69	84 67	83 68	84 68	80 68	82 68	85 69	82 67	82 67	85 71	85 71	84 71	85 71	85 72	85 73	86 74	86 73	86 74	86 72	86 73	85 72	88 72	85 72	83.4 70.3
MANA 1026	MAX MIN	86 67	86 65	87 62	87 63	86 62	84 62	85 63	85 66	81 65	85 67	84 65	83 64	83 64	86 66	87 64	85 63	86 63	86 63	86 62	87 60	86 70	88 68	88 67	88 66	89 67	88 66	88 65	89 65	89 66	91 66	90 68	86.4 64.8	
NIU RIIOGE 1035	MAX MIN	80 62	80 60	80 60	80 59	80 58	80 57	80 64	80 60	79 60	80 63	81 61	81 60	80 60	81 60	80 60	80 61	80 60	80 61	80 60	81 60	81 59	80 60	81 65	83 65	84 65	85 66	83 63	84 64	84 65	82 65	81 65	80 65	81.0 61.6
WAIAMI LOWER 1054	MAX MIN	78 65	76 63	77 63	76 63	71 63	77 60	76 60	75 61	78 64	79 61	76 60	78 60	79 59	80 60	80 58	79 58	80 55	81 58	80 63	81 66	81 66	81 66	81 66	82 67	82 68	82 68	82 66	81 66	81 65	82 64	82 61	83 60	79.2 62.5
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	82 67	83 65	84 66	84 65	84 64	82 62	81 61	81 67	80 65	83 69	82 67	83 66	84 68	84 68	84 64	85 65	80 68	85 64	88 65	87 68	87 70	87 69	87 68	85 67	87 66	87 68	88 66	88 67	88 66	88 68	85 68	89 66	84.6 66.4
HONOLULU WBFC 703	MAX MIN	83 72	84 71	85 72	85 72	84 71	83 66	83 66	82 71	80 70	82 71	83 68	83 70	85 73	85 73	86 71	86 70	83 69	88 68	88 75	90 76	91 75	90 74	86 73	87 71	86 73	87 74	88 71	85 71	86 72	86 70	89 72	85.5 71.3	
HONOLULU SUBSTA 704	MAX MIN	79 72	80 72	80 73	80 73	79 72	79 71	78 70	80 72	78 71	79 71	82 69	80 71	81 73	81 72	80 72	80 72	82 69	82 71	85 74	83 75	83 75	83 75	84 76	85 75	83 74	83 76	83 75	84 74	85 69	84 74	84 75	81.6 72.5	
KAHUKU 912	MAX MIN	81 70	79 70	80 69			80 71	81 64	81 68	81 67	84 69			81 68	81 71	80 72	80 69					82 70	81 72	83 74	83 74	83 74				84 71	84 75	85 72	86 70	81.9 70.3
KANEOME MAUKA 781	MAX MIN	80 69	77 69	80 70	80 69	79 69	80 66	80 67	80 68	80 68	80 65	78 67	79 67	80 68	79 68	80 68	81 68	80 69	79 68	82 68	82 69	82 72	82 72	82 76	83 73	83 72	82 72	83 72	82 70	83 71	83 71	85 71	80.9 69.7	
LUALUALEI 804	MAX MIN	84 73	80 72	82 73	82 73	83 65	83 63	82 71	83 68	82 68	78 70	82 68	83 70	84 68	84 71	83 70	85 67	80 67	82 68	85 77	86 76	86 76	86 77	86 76	86 74	86 72	87 75	88 71	85 70	85 70	86 68	89 72	83.0 71.0	
MAKAPUU POINT 724	MAX MIN	78 70	81 71	77 70	79 72	82 72	78 72	79 70	79 69	78 71	74 66	76 68	79 71	78 72	79 71	77 72	78 71	79 72	80 71	79 72	80 71	80 72	79 71	78 72	80 74	84 83	83 72	81 74	80 72	82 71	83 73	81 73	79.3 71.1	
UPAEULA 870	MAX MIN	78 65	80 67	80 67	80 69	78 64	79 59	77 60	78 59	78 63	75 65	84 67	80 64	78 66	81 66	83 64	81 65	83 65	83 62	83 67	83 67	80 62	80 69	81 68	81 68	83 65	83 66	82 65	84 66	81 66	83 66	80.5 64.9		
PRI WAIKAWA 920.2	MAX MIN	82 65	80 63	82 66	82 63	82 62	83 60	82 57	80 62	80 63	78 65	81 65	79 64	81 64	82 67	85 64	84 65	86 65	86 63	87 62	86 69	85 69	85 69	86 64	86 63	86 67	86 63	87 65	87 65	86 65	88 64	83.7 64.1		
WAIKAWA 847	MAX MIN	93 64	81 61	82 63	82 62	82 61	81 63	81 59	80 63	84 68	80 68	81 68	80 68	80 68	83 65	85 62	80 63	83 67	80 65	86 62	86 63	87 67	87 66	87 67	87 67	87 63	87 63	87 67	87 64	89 68	88 67	88 68	83.8 64.5	
WAIKIKI 717.2	MAX MIN	85 71	83 71	84 71	83 72	86 69	83 66	84 65	86 70	83 66	84 69	83 66	85 67	83 73	87 72	84 70	85 72	85 68	87 66	86 65	88 73	86 76	86 74	88 74	87 72	87 70	88 72	88 74	86 71	87 69	88 70	87 68	85.6 70.1	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	78 69	78 69	78 69	79 68	80 71	78 66	77 65	81 69	79 67	79 68	78 69	79 69	78 71	80 70	80 69	80 68	80 66	81 66	80 66	83 69	83 69	81 69	83 71	83 71	84 70	83 71	85 71	83 72	84 69	85 68	82 67	83 69	80.7 68.9
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	74 64	76 64	75 62	74 63	72 64	73 61	76 63	75 64	75 63	75 64	74 64	76 64	77 65	77 63	75 65	74 64	74 62	75 64	78 65	77 64	78 65	79 65	80 66	80 64	82 61	78 65	81 66	80 65	78 65	78 63	79 66	76.6 64.0	
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	60 43	59 44	61 45	64 41	65 39	62 40	65 47	64 44	62 48	63 49	63 50	61 50	58 51	64 50	66 55	67 42	63 40	63 44	66 49	67 48	69 54	68 52	66 50	72 50	67 46	66 44	67 44	64 41	64 44	67 43	65 44	64.5 45.8	
HALFAKALA SUMMIT 338.4	MAX MIN	53 36	53 37	51 38	55 41	55 40	59 43	60 44	60 40	60 40	42 41	59 42	60 35	59 42	60 41	59 42	61 43	60 44	60 39	59 45	58 43	57 43	56 39	54 40	58 45	62 44	61 44	62 40	57 43	61 46	62 46	64 41	58.6 41.6	
MAHA AIRPORT 355	MAX MIN	78 68	81 71	82 72	80 61	81 67	80 64	80 66	82 68	82 69	83 68	79 69	80 69	80 69	81 69	81 64	81 64	82 65	83 73	85 69	84 73	85 73	84 72	85 72	86 73	84 72	85 72	85 72	83 68	85 69	85 70	86 68	82.6 68.8	
MAHAPALI AIRPORT	MAX MIN	81 69	83 70	84 71	82 68	84 68	83 63	82 68	84 72	82 69	81 69	80 69	81 69	81 69	84 73	86 68	84 68	83 68	86 72	84 72	87 72	88 73	87 73	88 65	87 66	87 68	87 70	87 68	87 68	87 68	85 66	84.3 68.4		
KAHULUI WB AP 398	MAX MIN	83 66	85 68	83 68	84 65	82 57	82 57	84 57																										

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF HAWAII																																	
HAUNA 214	MAX MIN	79 63	79 64	85 63	77 62	80 62	79 62	79 64	80 64	81 64	81 67	78 66	81 68	78 65	79 64	80 64	80 60	82 63	82 69	79 68	82 67	83 67	84 67	81 64	85 63	83 67	84 66	82 64	83 63	83 65	85 64	81 64	
HAWAII VOLCANO NP HQ 54	MAX MIN	68 50	67 52	67 56	66 50	69 49	64 50	65 49	68 57	58 58	68 53	68 53	74 59	68 58	73 59	68 53	71 54	76 49	71 54	75 53	73 59	71 56	72 52	72 53	75 57	74 52	75 57	72 55	76 53	71 53	70 51	70.2 53.6	
HILLO W8 AIRPORT 87	MAX MIN	79 63	82 67	81 68	81 66	77 66	81 67	81 67	82 68	83 69	81 70	82 72	83 72	82 71	81 72	81 69	82 68	83 68	83 68	84 73	85 73	85 67	84 66	87 67	87 66	85 68	84 71	80 68	85 66	86 69	87 66	86 69	
KAINALIU 73.2	MAX MIN	77 63	77 62	76 61	77 63	78 62	79 59	78 64	77 65	78 68	79 68	81 68	81 69	80 68	81 67	80 63	79 64	80 62	82 61	82 63	82 66	79 67	80 64	82 64	82 64	78 62	78 66	78 64	79 63	79 67	79 64	79 64	
KAMUELA 192.2	MAX MIN	70 55	69 57	70 57	69 55	72 55	70 54	77 53	75 53	77 58	80 53	77 58	80 53	73 58	74 60	72 58	74 50	76 53	80 60	74 62	74 60	76 53	73 56	75 56	80 50	81 53	75 60	73 58	74 55	80 55	78 54	78.8 56.2	
KAMUELA AIRPORT 191	MAX MIN	70 51	71 53	70 50	68 50	70 54	71 49	72 48	74 48	73 67	74 47	75 45	76 61	73 47	74 48	74 57	73 57	75 56	76 57	76 63	74 58	77 59	77 59	77 59	78 52	78 60	75 51	75 53	73 58	76 57	76 56	74.2 53.5	
KEAAU 92	MAX MIN	80 63	79 65	81 64	81 62	81 62	81 62	81 66	81 66	83 67	84 67	84 58	84 58	85 58	81 66	85 66	81 66	85 66	85 66	85 66	85 65	85 65	86 66	88 66	88 66	88 66	81 65	84 66	86 65	87 66	83.5 64.3		
KEALAKEKUA 26.2	MAX MIN	79 63	79 62	77 63	78 64	78 62	77 60	78 62	78 64	78 64	79 68	81 67	80 68	82 67	81 65	81 62	79 65	80 62	81 62	82 66	81 68	78 66	80 64	80 64	81 62	81 65	78 62	79 66	80 64			79.5 64.3	
KOHALA MISSION 175.1	MAX MIN	78 66	78 65	77 66	78 66	78 64	77 65	77 62	79 64	81 67	81 67	75 68	78 70	79 68	80 68	80 67	79 67	79 62	81 65	82 67	77 71	81 71	82 70	82 70	81 67	83 66	82 69	82 68	81 67	81 67	81 68	82 68	
KONA AIRPORT 68.3	MAX MIN	84 68	82 68	83 68	83 67	82 68	82 68	82 69	83 68	82 68	82 68	83 68	83 68	84 69	84 70	84 64	84 66	82 68	84 61	86 67	86 67	83 68	83 68	83 68	83	83	84	84	86	85	83.5 64.3		
KULANI CAMP 79	MAX MIN	63 48	62 48	61 60	60 42	62 44	66 48	60 50	63 52	63 53	69 55	68 53	70 51	67 54	69 54	70 48	67 50	69 52	71 51	71 56	66 42	66 45	68 46	68 41	71 44	67 44	69 44	72 54	67 44	68 44	68 49	66.7 48.4	
MAUNA KEA BEACH 98	MAX MIN	84 69	86 70	87 71	85 67	84 69	86 69	86 67	84 72	86 71	86 71	87 73	88 73	87 72	88 71	88 71	88 68	87 73	88 73	91 73	88 73	93 73	85 70	85 69	86 68	86 70	87 72	86 71	88 70	86 73	81 71	86.5 70.5	
MAUNA LOA SLOPE 085	MAX MIN	50 34	54 31	53 30	54 35	53 33	56 34	57 40	47 52	52 40	51 39	54 39	59 41	50 39	52 37	52 36	54 34	56 36	58 38	58 40	59 39	60 39	60 39	63 42	62 42	60 42	58 42	56 40	56 38	57 37	55.4 37.7		
MOUNTAIN VIEW 91	MAX MIN	76 58	70 58	76 60	74 57	78 56	76 56	74 57	77 60	79 62	82 64	79 63	80 64	77 63	80 64	78 55	79 55	80 63	84 65	78 63	81 63	81 57	83 60	81 59	83 58	83 62	83 61	73 58	79 58	80 58	81 59	78.6 58.6	
NAALEHU 14	MAX MIN	80 68	77 66	80 67	80 67	80 62	80 62	78 63	78 67	78 67	81 69	88 69	88 68	84 70	87 68	79 65	80 64	80 64	81 66	83 66	81 66	81 70	81 69	81 69	82 68	84 69	82 68	77 67	81 69	82 68	81 70	81.0 67.2	
OKALA 223	MAX MIN	79 66	78 66	80 65	77 64	81 65	76 66	80 66	81 66	80 67	81 68	85 69	78 68	79 68	81 68	78 66	79 66	81 65	83 69	78 63	81 69	84 71	85 70	81 75	80 71	82 70	82 70	82 70	82 70	82 69	80.5 67.5		
OPIHIHALE 2 24.1	MAX MIN	79 59	78 59	77 58	79 58	81 58	78 58	76 58	76 63	82 63	85 64	81 66	84 66	78 65	84 65	80 60	81 61	80 61	82 63	83 62	83 62	83 61	83 60	82 61	82 61	79 62	77 61	82 64	80 65	77 62	80 63	80.3 61.9	
PAHALA 21	MAX MIN	79 61	77 62	80 61	78 61	79 56	78 61	76 61	78 61	80 64	80 66	80 67	83 73	79 68	84 68	79 66	82 62	80 60	82 66	82 66	81 64	82 67	81 66	82 66	84 66	84 66	80 65	78 62	80 63	80 63	79 63	80.1 64.2	
UPOLU POINT USCG 159.2	MAX MIN	79 69	81 68	82 65	82 69	81 67	81 66	82 68	82 70	84 70	83 69	83 68	82 70	82 72	82 71	82 70	86 70	85 70	86 69	86 69	84 69	85 71	85 70	86 70	86 70	86 70	86 70	86 70	86 72	86 73	87 71	83.8 69.8	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *	ISLAND OF KAUAI																																
LIHUE WB AIRPORT	EVAP	.32	.31	.34	.32	.22	.34	.32	.19	.08	.25	.10	.20	.25	.32	.36	.34	.29	.32	.21	.21	.31	.33	.30	.33	.31	.33	.30	.35	.34	.35	.30	8.84
	WIND	169	168	195	185	183	153	108	58	61	50	69	71	110	119	124	113	101	87	117	140	140	118	119	126	106	103	108	120	102	64	94	3581
	MAX	88	86	86	85	77	85	83	81	81	85	80	85	84	84	87	87	88	89	90	90	87	90	90	91	92	92	91	91	91	92	91	87.1
	MIN	65	66	64	65	63	63	63	64	64	65	62	64	64	65	65	65	62	63	65	66	68	70	69	69	70	70	68	68	66	66	66	65.6
* * *	ISLAND OF OAHU																																
HONOLULU OBSERV 702.2	EVAP	.26	.23	.29	.25	.23	.29	.24	.26	.32	.17	.12	.24	.14	.19	.23	.17	.25	.09	.25	.27	.25	.25	.24	.25	.31	.23	.30	.30	.25	.24	.22	7.33
	WIND	42	41	54	46	36	32	25	20	18	24	28	16	17	23	30	20	33	10	23	28	36	35	30	24	44	29	28	34	33	20	22	901
	MAX	92	92	92	90	90	93	91	91	91	82	90	99	88	90	93	92	92	84	98	97	95	96	97	98	99	96	97	96	95	98	96	93.2
	MIN	69	67	67	66	67	65	66	65	67	71	70	73	70	71	68	67	70	69	67	68	71	71	70	70	71	72	70	70	72	74	71	69.2
* * *	ISLAND OF HAWAII																																
HILO WB AIRPORT	EVAP	.10	.17	.25	.34	.08	.19	.26	.18	.25	.05	.15	.11	.24	.17	.21	.28	.27	.28	.07	.26	.29	.33	.27	.35	.35	.27	.12	.29	.33	.32	.26	7.09
	WIND	12	36	44	68	63	51	54	50	111	49	47	90	75	77	92	72	75	79	58	53	73	85	88	105	104	72	50	81	91	86	64	2155
	MAX	78	88	87	88	89	89	84	85	83	77	90	87	88	84	90	90	87	92	88	92	91	88	89	88	91	92	81	91	92	91	91	87.8
	MIN	63	65	66	66	65	65	64	66	67	68	73	71	69	69	67	68	63	66	72	69	63	64	65	65	70	67	65	67	65	67	66	66.6

SYNONYM INDEX

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STATION INDEX

HAWAII
MAY 1968

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
MOULUA 18	A 6407	03 KAU		3	19 11	155 30	600	MO				HAWAIIAN PANCH CO
MOUNTAIN VIEW 91	A 6552	02 PUNA		1	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03 KAU		1	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NADOPOO 28	A 6497	04 S KONA		1	19 28	155 58	395	7A				KONA EXPERIMENT STA
NAULU FOREST 38.6	8731	02 PUNA		1	19 19	155 08	1400	VAR				HAWAII VOLCANOES NAT PK
NIULII 179	A 5806	01 N KOHALA		1	20 14	155 45	75	6A				KOHALA SUGAR CO
KOKALA 223	7131	02 N HILO		2	20 01	155 17	430	7A				LAURENCE SUGAR CO
OPHIHIALE 2 24.1	7168	04 S KONA		1	19 16	155 41	1270	7A				MISS C LEONARD
ORCHID LAND EST 91.5	7185	02 PUNA		1	19 34	155 00	445	VAR				BOARD OF WATER SUPPLY
PARAHU 217	7204	03 HAMAKUA		1	20 05	155 26	415	7A				PAHAU SUGAR CO
PAULILO 221	7312	01 HAMAKUA		1	20 03	155 22	890	7A				HAMAKUA HILL CO
PAHALA 21	7421	03 KAU		1	19 12	155 29	870	8A	6A			HAWAIIAN ASP CO
PAHOA 65	7457	02 PUNA		1	19 30	154 47	670	6A				PUNA SUGAR COMPANY
PAYAO 37	A 7643	03 KAU		1	19 22	155 28	5000	MO				HAWAIIAN PANCH CO, INC.
PAPAIOU 144.1	7711	02 S HILO		1	19 47	155 06	209	7A				MAUNA KEA SUGAR CO
PAPAIOU MAUKA 140.1	7721	02 S HILO		1	19 47	155 08	1270	7A				MAUNA KEA SUGAR CO
PEPEKOA MAKA 144	8009	02 S HILO		1	19 51	155 05	100	MO				PEPEKOA SUGAR CO
PIIHONUA 89	A 8051	02 S HILO		1	19 44	155 10	1730	7A				STATE DIV OF FORESTRY
POHAKUOA 107	A 8063	02 HAMAKUA		1	19 45	155 32	6511	VAR				STATE DIVISION OF PARKS
PUKO 95.1	8186	05 KOHALA		1	19 59	155 50	6	6A				ERWIN H. TAPP
ISLAND OF HAWAII												
PUU KIME 120	8393	01 HAMAKUA		1	19 54	155 24	7750	M				KUKAIAU RANCH CO
PUU LAU 102.1	8452	05 HAMAKUA		1	19 50	155 36	7440	M				STATE DIV OF FISH-GAME
PUU LEHUA 73	8468	04 N KONA		1	19 34	155 45	4880	M				GREENWELL PANCH
PUU MALI 113	8515	01 HAMAKUA		1	19 55	155 26	6960	M				KUKAIAU RANCH CO
PUUOKUMAU 167	8548	01 N KOHALA		1	20 12	155 56	1800	7				KOHALA DITCH CO LTD
PUU OKO 82	8550	02 S HILO		1	19 44	155 23	6340	6A				W. H. SHIMAW, LTD
PUU WAHAA 94.1	8555	05 N KONA		1	19 47	155 51	2520	7A				DILLINGHAM PANCH INC
SADDLE ROAD 1 84	8590	02 S HILO		2	19 42	155 12	2340	W				BOARD OF WTR SUPPLY
SOUTH POINT COPPAL 3	8676	03 KAU		1	18 57	155 41	420	W				HUTCHINSON SUGAR CO
S POINT TRACKING STA	8679	03 KAU		1	18 57	155 41	305					FEDERAL ELECTRIC CORP
ISLAND OF HAWAII												
UNIKOA 118	8780	01 HAMAKUA		1	19 59	155 23	3420	7				KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01 N KOHALA		1	20 15	155 53	61	8A				U. S. COAST GUARD
WAIAKEA SCD 88.2	9025	02 S HILO		2	19 40	155 08	1050	7				SHINICHI KANEISHIRO
WAIRANGOLA 178.6	9350	01 N KOHALA		1	20 08	155 47	1030					KUKAIAU RANCH
CLOSED STATION												
ISLAND OF HAWAII												
KEMENA RESERVOIR 176.14	4250	01 N KOHALA		1	20 10	155 48	2520	7				CLOSED 4/30/68
NEW STATIONS												
ISLAND OF MAUI												
KAANAPALI AIRPORT	2307	04 LAHAINA		2	19 56	156 42		8A	8A			AMFAC PROPERTIES
ISLAND OF HAWAII												
KONA VILLAGE 95.8	4765	04 N KONA		4	19 52	155 55	15	8A				KONA VILLAGE RESORT HTL

↑ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLA 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII"

DIMENSIONAL UNITS Unless otherwise indicated, dimensional units used in this bulletin are Temperature in F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shows following station name in "Climatological Data" table, "Daily Precipitation" table; and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month
- B Adjusted to a full month
- J "Supplemental Data" table
- M One or more days of record missing, if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building

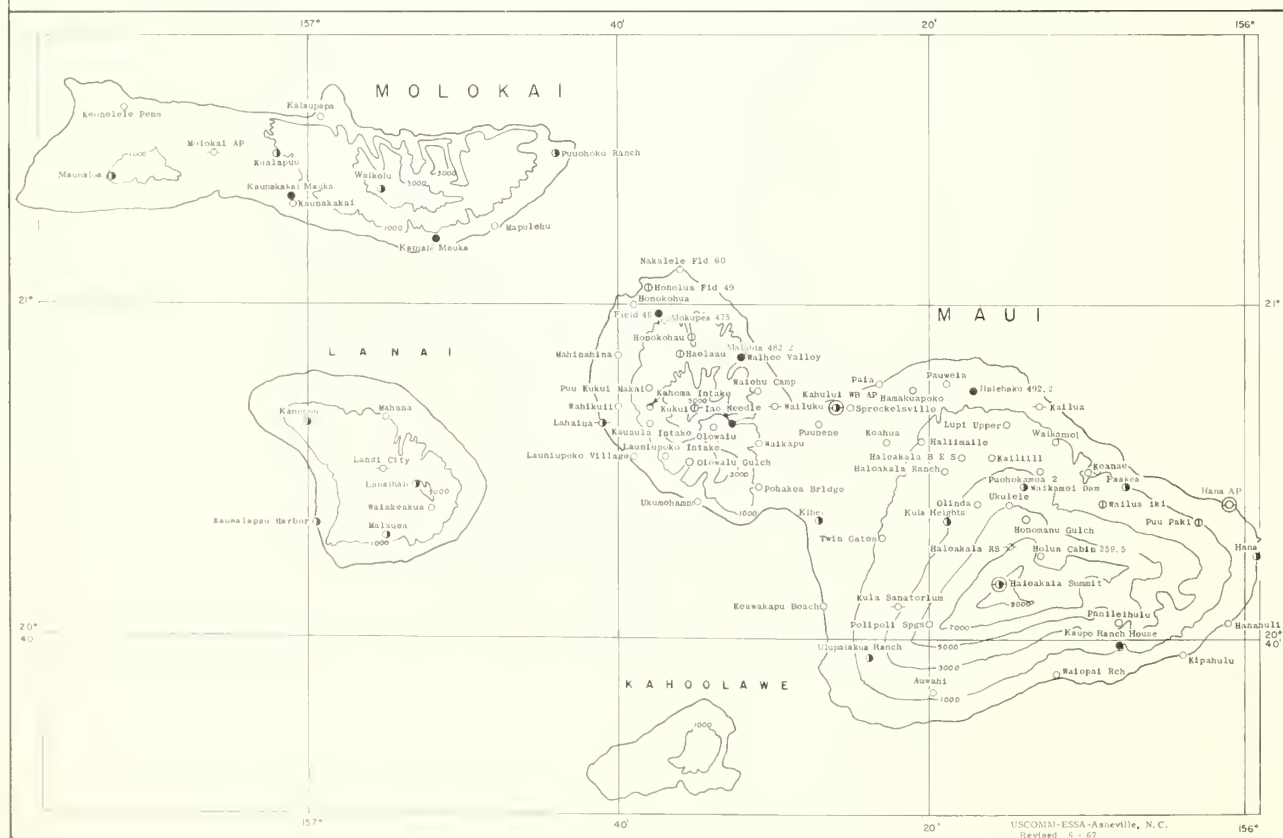
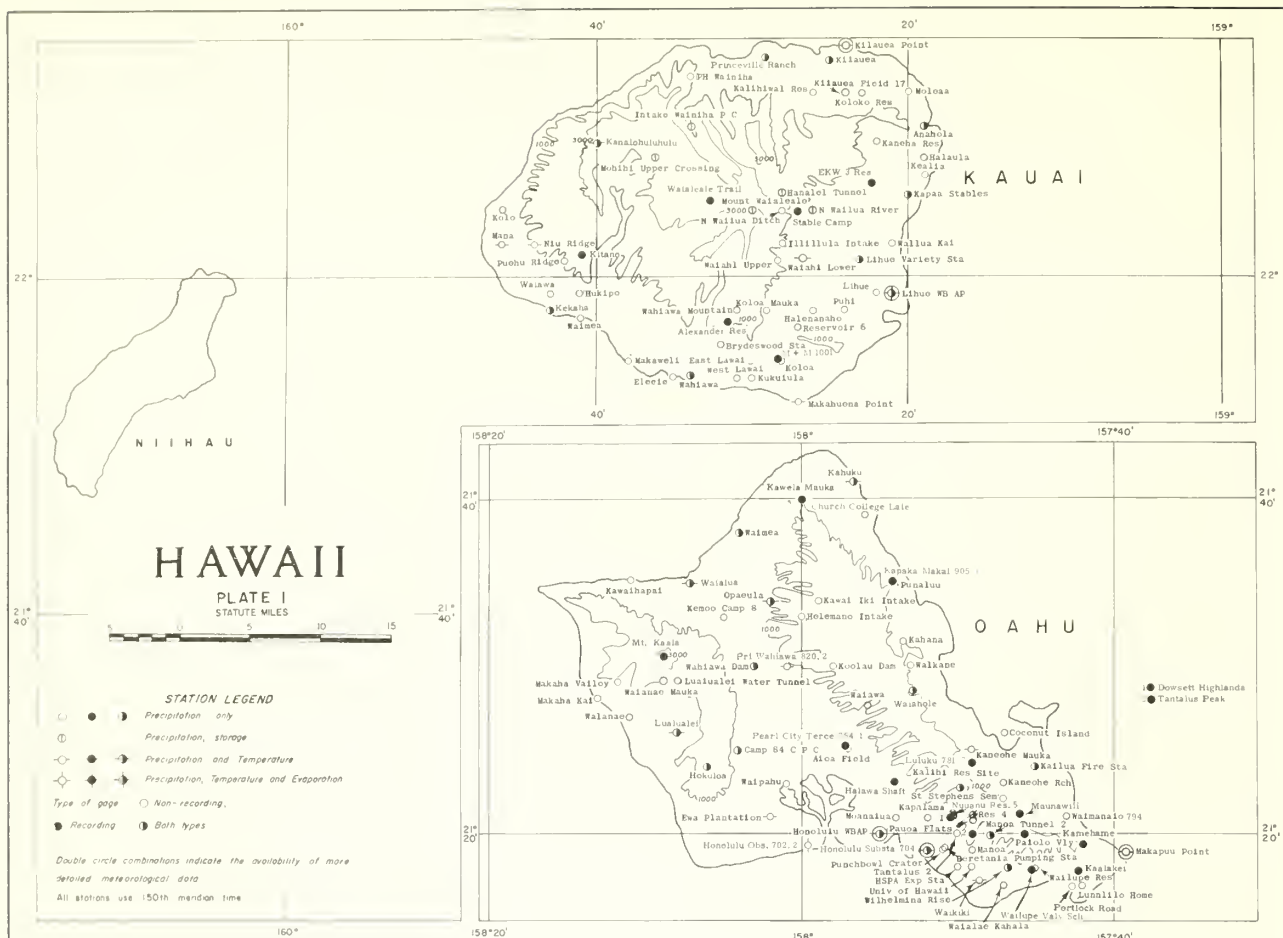
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

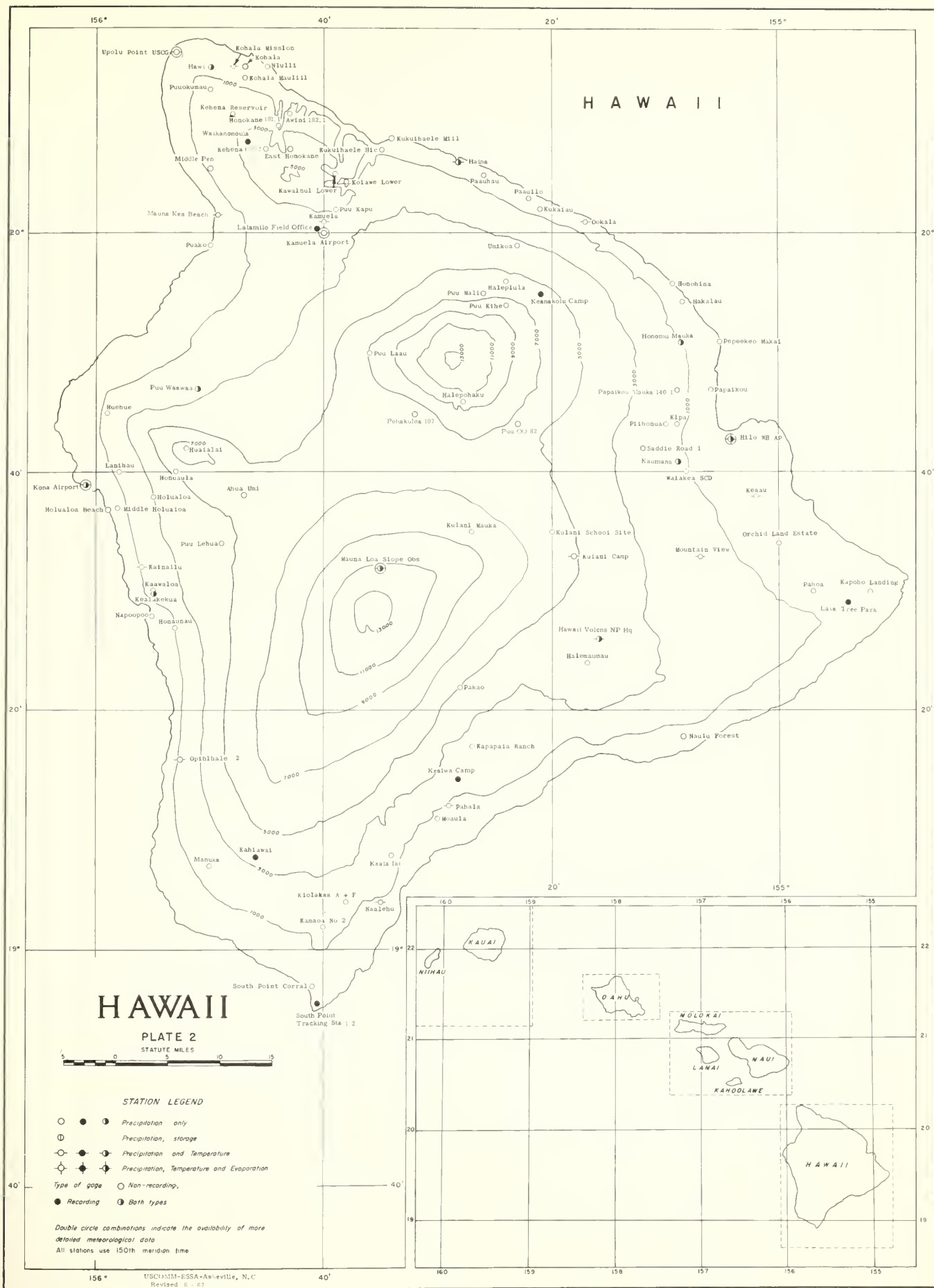
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price. 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHVILLE-8/29/68-890

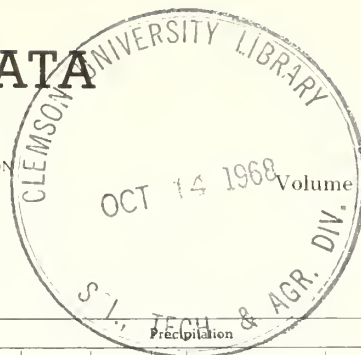






CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
C. R. SMITH SECRETARY
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE



HAWAII

JUNE 1968

Volume 64 No. 6

CLIMATOLOGICAL DATA

Station		Temperature											Precipitation															
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
											Max. Min.								Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											50° or Above	Above 60°	60° or Below	32° or Below															5° or Below
* * * ISLAND OF KAUAI																												
ANAOHA 1111	A	74.2	55.3	64.8		78	30	47	2		0	0	0	0	1.15	-.50			.0	0			0	0				
KANALOHULUHULU 1075	A														1.01		.20	30	.0	0		5	0	0				
KAPAA STABLES 1104	A														1.38		.30	12	.0	0								
KILAUEA FIELD 17 1135	A	84.3	71.9	78.1		87	26	65	26		0	0	0	0	2.27	-2.49		.73	29	.0	0		7	1				
KILOA 936	A														1.97	-1.72			.0	0								
LIHUE W8 AP 1020.1	R	83.0	72.6	77.8	1.2	84	28+	66	1		0	0	0	0	1.23	-.23	.32	30	.0	0		4	0	0				
MANA 1026		89.2	67.3	78.3	1.6	92	30+	65	18+		12	0	0	0	.00	-.64	.00		.0	0		0	0	0				
N WAILUA DITCH 1051	A														9.34				.0	0								
PH WAINIHA 1115															3.60	-2.38	.62	30	.0	0		10	2	0				
PUEHU RIDGE 1040															.05		.05	12	.0	0		0	0	0				
WAIHIAWA 930	A														.68	-.64			.0	0								
WAIHI LOWER 1054		81.3	66.3	73.8		83	25+	59	1		0	0	0	0	5.27		.91	30	.0	0		18	4	0				
WAIHEA 947															.03	-.25	.03	30	.0	0		0	0	0				
ISLAND				74.6											2.18				.0									
* * * ISLAND OF OAHU																												
HONOLULU OBSERV 702.2	R	87.5	73.3	80.4	2.5	89	29+	68	2+		0	0	0	0	.17		.06	8	.0	0		0	0	0				
HONOLULU WBFC 703	A														.24	-.09	.17	13	.0	0		1	0	0				
KAHUKU 912	A	83.0	72.6	77.8	1.9	86	4	69	3+		0	0	0	0	.92	-.49			.0	0								
KANEOME MAUKA 781															1.30	-1.64	.42	27	.0	0		4	0	0				
KOOLAUA DAM 833															7.34	-.88	1.20	17	.0	0		17	5	1				
LUALUALEI 804		85.2	74.9	80.1		88	6	70	5+		0	0	0	0	.10		.10	14	.0	0		1	0	0				
MAKAPUU POINT 724		81.3	72.7	77.0		85	10+	71	16+		0	0	0	0	.28	-.22	.18	12	.0	0		1	0	0				
NUUANU RES 4 783															4.09	-3.06			.0	0								
OPAULA 870	A	82.3	67.1	74.7	3.1	90	1	61	2		1	0	0	0	2.49	-.11	.47	30	.0	0			0	0				
PALOLO VALLEY 718															6.36	-2.43	2.14	13	.0	0		13	2	2				
PRI WAIHIAWA 820.2	A	85.3M	67.6M	76.5M		88	7	61	3		0	0	0	0	.61				.0	0			0	0				
PUNALUU 884	A														1.84		.28	14	.0	0			0	0				
WAIHIAWA DAM 863	A														.55				.0	0			0	0				
WAIHOLE 837	A	86.1	66.5	76.3	1.0	90	7	61	2		1	0	0	0	3.31	-4.69			.0	0			0	0				
WAIALUA 847	A														.22	-.50	.06	14	.0	0		0	0	0				
WAIKIKI 717.2		86.5	73.2	79.9		89	7	65	2+		0	0	0	0	.43		.12	14	.0	0		2	0	0				
WAIPAHU 750	A														.17	-.43	.12	14	.0	0		1	0	0				
ISLAND				77.8											1.79				.0									
* * * ISLAND OF MOLOKAI																												
KUALAPUU 534	A														.18	-.49	.07	26	.0	0		0	0	0				
MAPULEHU 542															2.47	.28	.55	25	.0	0		10	1	0				
MAUNALOA 511	A														.23	-.52	.13	7	.0	0		1	0	0				
MOLOKAI AP 524		82.7	70.3	76.5		85	24+	67	6		0	0	0	0	T		T	30+	.0	0		0	0	0				
ISLAND				76.5											.72				.0									
* * * ISLAND OF LANAI																												
LANAI CITY 672	A	78.8	65.9	72.4	2.3	83	30	62	3		0	0	0	0	.93	-.49	.38	14	.0	0		3	0	0				
ISLAND				72.4											.93				.0									
* * * ISLAND OF MAUI																												
HALEAKALA 8 E S 434	A	67.4	49.7	58.6		74	24+	41	26		0	0	0	0	2.15	-.63	.52	26	.0	0		7	1	0				
HALEAKALA RS 338															1.18		.40	14	.0	0		5	0	0				
HANA AIRPORT 355		84.8	71.2	78.0		89	29	66	2		0	0	0	0	3.60		.40	7	.0	0		14	0	0				
HONOKOHUA 493	A														.90	-.78	.26	26	.0	0		3	0	0				
KAANAPALI AIRPORT	M		70.4	M		89	30+	65	3		0	0	0	0	T		T	26+	.0	0		0	0	0				
KAHULUI W8 AP 398	R	88.2	67.6	77.9	.7	92	5	61	2+		8	0	0	0	.12	-.06	.05	17	.0	0		0	0	0				
KAILUA 446		79.8	67.8	73.8	1.9	82	1	63	3		0	0	0	0	6.27	-1.30	.77	18	.0	0		14	4	0				
KEANAE 346	A														10.40	-3.37			.0	0								
KIPAHULU 258		74.2	57.4	65.8	.9	78	29	54	3		0	0	0	0	4.46	-3.30	.58	12	.0	0		17	1	0				
KULA SANATORIUM 267															.02	-1.67	.02	2	.0	0		0	0	0				
LAHAINA 361		87.3	69.3	78.3		89	17+	66	3+		0	0	0	0	.00	-.06	.00		.0	0		0	0	0				
PAIA 406															.52	-.67	.09	17	.0	0		0	0	0				
WAILUKU 392		85.6M	72.0M	78.8M	2.4	88	27+	69	27		0	0	0	0	1.92	-1.58	1.75	11	.0	0		1	1	1				
ISLAND				73.0											2.43				.0									

CLIMATOLOGICAL DATA

Continued

HAWAII
JUNE 1968

Continued

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										99° or Above	32° or Below	31° or Below	0° or Below										
ISLAND OF HAWAII																							
MAINA 21*	82.7	65.9	74.3	1.3	85	26	63	14+		0	0	0	0	3.65	1.73	2.46	14	.0	0		4	2	1
HAWAII VOLCNS NP HQ 54	69.0	55.3	62.2	.2	73	7	53	3+		0	0	0	0	8.73	4.20	3.57	14	.0	0		17	3	2
HILO WG AIRPORT 87	83.9	69.2	76.6	2.3	88	6	67	30+		0	0	0	0	8.72	1.93	1.24	13	.0	0		20	4	3
HUEHUE 93.1														2.73	1.77			.0	0				
KAINALIU 73.2	79.5	64.9	72.2		82	29+	63	22+		0	0	0	0	4.31	3.64	1.21	20	.0	0		9	4	1
KAMUELA AIRPORT 191																							
KEAAU 92	74.7	55.2	65.0		76	27+	48	19		0	0	0	0	.60		.42	14	.0	0		1	0	0
KEALAKEKUA 26.2	83.9	66.3	75.1	1.4	86	7	65	20+		0	0	0	0	8.67	.81	1.98	14	.0	0		18	5	1
KONA AIRPORT 68.3	79.6M	64.5M	72.1M		82	30+	62	4		0	0	0	0	2.37		.53	6	.0	0		7	2	0
KUKUIHAELE HIC 199	84.0M	66.1M	75.1M		85	28+	64	27+		0	0	0	0	.85		.34	16	.0	0		4	0	0
														1.42	- 1.62	1.05	14	.0	0		1	1	1
KULANI CAMP 79	65.4M	49.3M	57.4M		71	7	41	2		0	0	0	0	6.84		2.57	14	.0	0		15	5	1
MAUNA KEA BEACH 98	87.9M	71.7M	79.8M		96	30	62	24		8	0	0	0	.14		.10	14	.0	0		1	0	0
PAHALA 21				.9	84	30	62	30+		0	0	0	0	2.24	.91	2.01	14	.0	0		2	1	1
POHAKULOA 107														.85				.0	0				
PUAKO 95.1														.12				.0	0				
PUU WAHAA 94.1														.79	- 1.33	.51	14	.0	0				
UMIKOA 118														3.56	1.86	3.19	14	.0	0				
UMIKOA 118																		.0	0				
WAIKOA SCO 88.2														12.46		1.45	14	.0	0		16	10	5
ISLAND			71.2											3.84				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 96° ON THE 30TH AT MAUNA KEA BEACH 98, HAWAII

LOWEST TEMPERATURE: 32° ON THE 14TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 15.62 INCHES AT HONOMU MAKUKA 138, HAWAII

LEAST TOTAL PRECIPITATION: .00 INCH AT 10 STATIONS

GREATEST ONE-DAY PRECIPITATION: 4.25 INCHES ON THE 14TH AT PAHOA 65, HAWAII

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

The month was marked by an unseasonable fall of snow and by continued dry weather over much of the State.

What may have been its first June snowfall in 50 years or more occurred during the morning of the 14th on the summit of Haleakala, Maui, elevation 10,023 feet. The snow, which began at 6:20 a.m., fell for about 10 minutes and remained on the ground only briefly.

At higher elevations in Hawaii, summer snow is less uncommon. Thus, this was the eighth snowfall reported in June on Mauna Loa (elevation 13,680 feet) and the sixth on Mauna Kea (elevation 13,796 feet) during the same years. Because the summits of Mauna Loa and Mauna Kea are still untenanted (an astronomical observatory is now being built on Mauna Kea), and Haleakala has been occupied only in recent years, the absence of a report of snow on these peaks does not necessarily indicate that snow did not occur. Nevertheless, it would appear that snow in June in Hawaii at elevations as low as that of Haleakala summit is exceedingly uncommon.

Dry weather has been affecting virtually every part of the State intermittently since early in the year, but has been most widespread and persistent on Kauai. In both May and June

every gage on that island received well below its average rainfall for the month, with many reporting less than half and some less than one-fourth of their monthly means. The western coast was especially dry in June, while Koloa, in southeastern Kauai, had its fifth consecutive month of below normal rainfall.

As for the other islands, almost all of Oahu had well under its normal rainfall in both May and June. Windward east Maui had less than half its monthly average in May, with extremely dry weather spreading in June over the remainder of the island, except for a very few scattered gages.

On Hawaii Island, rainfall over Kohala and Kona remained below normal during May and June, while the eastern (windward) coast and slopes, from lower Hamakua to south Hilo, which had had well under half their normal rainfall in May, returned to slightly above normal in June.

By month's end the dry weather had not yet affected crops severely nor had water shortages been reported, but irrigation was heavy in many areas.

As shown below, five long-period stations had their driest June of record.

Stations With Less Rain in June 1968 than in
Any Previous June
(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous June Minimum	June 1968
HAWAII			
Holualoa	39	3.40	2.40
Kaawaloa	26	3.32	2.36
Kealahou	52	2.63	2.37
Lanikai	25	4.16	2.28
MAUI			
Kula Sanatorium	50	0.03	0.02

Saul Price
Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

Russell Dorr
Acting State Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
JUNE 1968

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
ANAHOLA 1111	A	1.15			.03			.04	*	*	.27	.10	.10	.04	.05	*	*	.27	.05	.14	.02	.02	*	*	.18	.01	.04	.01	.05	*	*	*	
BRIDESWOOD STA 985	A	2.13		.03	.01				*	.39	.06	.06	.04	.72	*	*	.08	.05	.14	.02	.04	*	*	.29	.01	.08	.02	.12	.14	*	*	*	
EAST LAKE 934	A	2.38		.02					*	.21	.06	.21	.13	.45	*	*	.32	.18	.26	.03	.07	*	*	.10	.08	.02	.12	.12	*	*	*		
ELELE 927	A	.44							*	.06	.01	.02	.17	*	*	.03	.02	.02	.17	*	*	.02	*	*	.02	*	.06	.01	*	*	*	*	
HALEAULA 1110	A	1.19		.11					*	.20	.10	.12	.07	.06	*	*	.20	.02	.04	.02	*	*	.15	*	.05	.05	*	*	*	*	*	*	
HALEMANU 1006	A	2.45		.09					*	.53	.37	.34	.23	*	*	.17	.08	.11	.04	*	*	.34	*	.11	.04	*	.04	*	*	*	*	*	
HUAIPO 945	A	.00																															
ILILILUA INTAKE 1050	A	8.94		.32	.17	.08		.04	.60	.32	.20	.34	.76	.42	1.16	.02	.40	.25	.55	.46	.06	.16	.15	.20	.22	.04	.15	.17	.38	.20	1.10	*	
INTAKE WAINIMA PC 1086	A	3.98		*	*	.06	*	*	.22	*	.78	.87	.37	*	*	1.08	*	*	.08	*	.26	*	.08	*	.08	*	*	.26	*	*	*	*	
KALIMAI PES 1131	A	2.05			.06	.10		*	.38	.10	.23	.26	.37	*	*	.54	.19	.14	.01	.07	*	*	.24	.01	.03	.01	.03	*	*	*	*		
KANALOHULULU 1075	A	1.01		.05				.02	.05	.03	.12	.03	.07	.10	*	*	.12	.02	.04	*	.05	*	.03	.02	.11	.02	.11	*	.20	*	.20	*	
KANEHA RESERVOIR 1092	A	2.52			.04			.08	*	*	.47	.20	.15	.27	.11	*	*	.42	.05	.06	*	.05	*	.35	.05	.02	.05	.04	*	*	*	*	
KAPAA STABLES 1104	A	1.38						.02	*	*	.12	.10	.30	.10	.23	*	*	.20	.05	.02	*	.15	*	.15	*	.15	*	.04	*	*	*	*	
KEALIA 1112	A	1.10		.03				*	.12	.09	.22	.14	.08	*	*	.21	.03	.05	.03	*	.03	*	.10	*	.10	*	.05	*	*	*	*	*	
KEKAMA 944	A	.04									.02	.01	.01	*	*																		
KILAUEA 1134	A	1.39		.02				.01	*	*	.34	.10	.10	.05	.02	*	*	.29	.05	.13	*	.13	*	.13	.01	.01	.01	.12	*	*	*	*	
KILAUEA FIELD 17 1135	A	2.56		.06	.10			.01	*	*	.74	.07	.18	.13	.07	*	*	.31	.07	.15	.01	.04	*	.14	.01	.01	.01	.23	*	*	*	*	
KILAUEA POINT 1133	A	2.27			.06			.28	.03	.02	.23	.04		.13		.19	.08	.04	.07	.15	.14	.02	.03	.03	.02	.02	.18	.73	*	*	*	*	
KOLO 1033	A	.00																															
KULDA 936	A	1.97		.05				*	*	*	.16	.07	.13	.09	.21	*	*	.42	.11	.12	.01	.06	*	*	.16	.02	.26	.10	*	*	*	*	
KOLOA MAUNA 994	A	2.60		.11				*	*	*	.45	.42	.15	.45	*	*	.14	.15	.14	.15	*	.15	*	.29	.01	.05	.15	*	*	*	*	*	
KOLOA PES 1137	A	2.52			.06			.02	*	*	.64	.10	.35	.18	.13	*	*	.28	.12	.01	.21	*	.16	.01	.05	.01	.19	*	*	*	*	*	
KUJULUA 935	T	.76						.03	*	*	.10	.01	.09	.07	.05	*	*	.15	.10	.03	.05	.02	*	.10	.01	.03	.02	*	*	*	*	*	
LIHUE VARIETY STA	A	2.95		.16	.04			.02	.22	.10	.12	.32	.18	.11	*	*	.20	.04	.02	.08	.06	.08	.03	.12	.01	.02	.01	.02	*	*	*	*	
LIHUE 1020	A	1.43				.01		.02	*	*	.26	.02	.10	.21	.09	*	*	.10	.03	.06	.03	*	.28	.06	.02	.04	*	*	*	*	*	*	
LIHUE W8 AP 1020.1	R	1.23		.08				.18	.06	.01	.14	.11	.01	.02	.01	.08	.02	.01	.03	.01	.04	*	.02	.07	.02	.03	.01	.01	.32	*	.32	*	
MAKAHUEA POINT 940.1	A	.74						.03			.02	.03	.04	.06	*	*																	
MAHAMELI 965	A	.34																															
MANA 1026	A	.00																															
MOHINI UPR CROSS 1083	A	1.91		.08				.08	.08	.08	.08	.16	.08	.08	.08	.40	.08			.08		.08		.08	.08	.08	.16	.39	*	*	*	*	
MOLDA 1145	A	.88			.01			.02	*	*	.22	.02	.22	.01	.03	*	*	.18		.08	*	.02	*	.02	*	.07	*	*	*	*	*	*	
MOUNT MAIALEALE 1047	A	.17																															
NIU RIDGE 1035	A	9.44		.40	.20	.30	.20	*	*	1.40	.98	.37	.62	1.30	*	*	.86	.59	.50	.16	*	.72	.18	.16	.40	*	.17	*	*	*	*	*	
N. WAILUA DITCH 1051	A	3.60		.02				.12	.03	.15	.24	.55	.25	.03	.47	.33	.23	.09	.03	.09	.03	.05	.03	.01	.23	.62	*	*	*	*	*	*	
PRINCEVILLE PANCH 1117	A	2.31						.19	.12	.08	.09	.16	.32	.24	.10	.24	.12	.02	.04	.09	.02	.19	.03	.05	.12	.09	*	*	*	*	*	*	
PUGHU RIDGE 1040	A	1.73		.28				*	.39	.02	.19	.11	.13	*	*	.05	.09	.05	.03	*	.29	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	
RESERVOIR 6 1004	A	1.94		.15				.44	.27	.24	.16	*	*	.13	.04	.11	.03	.04	.11	.03	.04	.01	T	T	.06	*	*	*	*	*	*	*	
WAILUA 930	A	.68						.02		.12	T	.06	*	*	.34	.03	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
WAILUA MOUNTAIN 990	A	9.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WAILUA LOWER 1054	A	5.27		.12	.50	.06	.05	.26	.11	.08	.23	.31	.18	.56	.01	.50	.12	.03	.32	.03	.13	.11	.12	.13	.05	.03	.15	.06	.06	.91	*	*	
WAILUA UPPER 1052	A	7.26		.28	.53	.06	.05	.29	.12	.31	.61	.40	1.05	.05	.45	.06	.31	.50	.04	.13	.04	.21	.15	.04	.21	.15	.04	.21	.15	.04	.21	.15	
WAILUA 943	A	.39						.12		.16	.14	.14	.05	.05	*	*	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	
WAILUA KAI 1065	A	.79		.03				*	*	.16	.14	.14	.05	.05	*	*	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	
WAILUA 947	A	.03																															
WEST LAKE 911	A	1.27		*	*	*	*	.15	.02	.17	.08	.11	*	*	.41	.06	.62	.01	.02	*	*	.02	.04	.02	.10	.03	*	*	*	*	*	*	
ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	1.37						.12	*	*	.16	.24	.13	.04	.27	*	*	.12	.05	.03	*	.02	.22	.03	.13	.01	.05	.07	*	*	*	*	
BERETANIA PUMPING STA	A	.66						*	.06	.01	.09	.06	.23	*	*	.03	.09	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	
CAMP 84 807	A	.44		.01				*	.06	.01	.09	.06	.23	*	*	.03	.09	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	
CHURCH COLLEGE LAIE	A	1.69		.02				.04	.22	.05	.03	.07	.09	.21	.12	.18	.02	.12	.01	.02	.06	.10	.05	.05	.04	.01	.05	.07	*	*	*	*	
CONCUNT ISLAND 840.1	A	.36						.03	.05	.08	.04					.04	.02	.01	*	.02	.06	.08	.05	.01	.05	.01	.05	.07	*	*	*	*	
EWA PLANTATION 741	A	.20						.05	*	*	.91	*	.58	*	*	.03	1.88	*	.13	*	.48	.01	.27	*	*	*	*	*	*	*	*	*	
HELEMANU INTAKE 881	A	4.76		*	*	.10	*	.41	*	*	.21	*	.58	*	*	.03	1.88	*	.13	*	.48	.01	.27	*	*	*	*	*	*	*	*	*	
HOKULUA 725.7	A	.62						*	*	.21	*	.58	*	*	.03	1.88	*	.13	*	.48	.01	.27	*	*	*	*	*	*	*	*	*	*	
HONOLULU OBSERV 702.2	A	.17						.06	*	*	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	
HONOLULU WBFC 703	R	.24		T	T	T	T	T	T	T	.01	.17	T	T	T	.01	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
HONOLULU SUBSTA 704	A	.41						.05	*	*	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	
H S P & EXP STA 707	A	.92		*	*	T	*	T	.03	.01	T	.07	.12																				

HAWAII
JUNE 1968

[illegible]

DAILY PRECIPITATION

HAWAII
JUNE 1968

Continued

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAHUOLA 192.2	1.08				.08						.02	.02			.42						.07		.04	.05	.12	.02	.18	.05	.01			1968	
KAHUOLA AIRPORT 191	1.60														.42						.02		.01	.01	.07		.05	.02					
KAPAPALA RANCH 36	2.84		.40						.20		.10			.08	1.85																		
KAPOHU LANDING 93.5	10.17							.81							5.69							1.99								1.68			
KAUHANA 88.1	11.68	.05	.01		.04		.01	1.44	.68	.93	.61	.04			1.74	.72	.01	.08	.93	.23	1.13	.01	.62	.33	.33	.17	.10	.35	.61		.04		
KAAHUNUI LOWER 193	6.08							.92							1.46							2.10								1.60			
KEAU 92	8.67	.07	.02		.03			.01	.64	.66	.39	.45	.39	.30	1.98	.48	.12	.15	.47	.31	.60	.17	.53	.14	.23	.05	.08	.28	.07	.39	.03		
KEELAKEUA 24.2	2.37	.51		.01			.53		.01	.18	.24	.04	.02		.15																		
KELENA 181.2	5.61																																
KULANAA A F 6	4.10																																
KUPA 89.2	13.47	.01	.11		.07	.08		.94	.79	.76	.55	.03		.59	2.81	.95	.06	.70	1.12	.46	1.26	.05	.62	.21	.27	.16	.21	.36	.30	T	T		
KOHALA 179.1	2.74				.01	.10				.12	.05			.05	.15			.07	.42	.06	.18												
KOHALA MAULILI 176	3.51				.07	.16	.05	.01		.18	.05			.02	.19			.06	.45	.09	.33	.04											
KOHALA MISSION 175.1	3.18			.01	.05	.10	T		.11	.01	.06	.08	.01	.01	.18	.01	.02	.06	.51	.08	.24	T		.48	.01	.21	.16	.03	.62	.11	.02		
KOJANE LOWER 196	4.40							.40							1.28							1.62								1.10			
KONA AIRPORT 68.3	.85			T				.01	.21		.03	T	.14			.05		.34														.12	
KONA VILLAGE 93.8	.37				.05													.01	.06	T	.23					.11	.17	.12	.94	.11	T		
KUKAIKU 222	5.28								.03	.05					3.44	.01		.05	.05		.05					.05	.05	.04	.06				
KUKUIMAELE HIC 199	1.42												.03		1.05			.05	.05		.02					.05	.01	.01	.45	.02			
KUKUIMAELE MILL 206	2.17														1.56	*		.02															
KULANI CAMP 79	6.84				.03			.55	.71	.24	.10	.10		.43	2.57	.54		.17	.54		.11	.21		.16		.04	.01	.14	.01	.18			
KULANI MAUKA 76	3.29							.25	.20	.05	.15			.35	2.05			.12			.10												
KULANI SCHOOL SITE 78	4.46						.02								2.10	*					1.90									.44	*		
LAHIMAU 68.2	2.28	.39	.05					.04	.22		1.04				.10					.09	.18						.05						
MANUKA 2	1.80			.02					.09				.66	T	.90	*		.04	T						.07		.02	T					
MAUNA KEA BEACH 98	.14										.35	.03		.08	.10						.01				.04								
MAUNA LOA SLOPE 885	1.42							T						.08	.40																		
MIDDLE MOULALO 68.1	2.82	1.10									1.25	.07			.12																	1.90	
MIDDLE PEN 147.1	.12																																
MOULALA 18	1.90																																
MOUNTAIN VIEW 91	14.94	.28	.09		.10	.06		1.24	1.26	.73	.88	.61	.43	2.08	.78	.20	.24	1.23	.47	.93	.09	.97	.24	.43	.14	.26	.74	.38	.08				
NALEHU 14	2.59									.31	T			2.12					.02		.06	T											
NAPOOPOO 28	2.54			.05				.01			1.13							.54								.11							
NAULU FOREST 38.6	7.44	.04	.04		.01			.46	.24	.02	.13			4.64	.15	.01	.02	.21	.62	.02	.03	.18	.15	.02	.01	.07		.37					
NIULII 179	2.82				.02				.13	.02	.02			.25	*		.05	.46	.08	.17				.80	.10	.10	.15	.47					
OKALA 223	5.45							.01	.10	.08	.13	.01	.01	3.01	.08	.02	.06	.18		.06	.46	.01	.09	.04	.10	.16	.26	.16	.50	.01			
OPIMIMALE 2 74.1	2.42	T			.11	T		.03	.10		.87			5.90	*					.07					.05	.04	T		2.27	.39	.02		
ORCHIO LAND EST 91.5	11.53							.39												.11	T	2.97	*										
PAUHAU 217	4.29													3.02		.02				.06				.06	.04	.14	.93	.01	.01				
PAUHAU 221	4.72									.03				3.45	.02		T	.02		.09				.08	.08	.06	.80	.09	T				
PAHALA 21	2.24	.12	.04					.05	.02		.95	.98		.57	.81	.49	.67	4.25	.42	.10	.13	.42	.76	1.02	.20	1.09	.28	.48	.12	.26	.34	.17	.15
PAHOLA 65	14.93	.07	.02		.12	.06																										2.90	
PANAU 37	2.90																																
PAPAIAKU 144.1	10.01	.09	T		.10			.47	.56	.35	.39	.17	.15	1.44	.85	.08	.51	.87	.10	.96	.19	.75	.13	.50	.14	.10	.57	.29	.05	T			
PAPAIAKU MAUKA 140.1	12.54	.04	.22	.02	.04	.05		.55	.57	.49	.57	.15	.27	2.31	.64	.06	.91	1.28	.27	1.43	.07	.70	.21	.26	.19	.20	.57	.45	.02				
PEPEKEKE MAKAI 144	7.95	.05		.01		.01		.41	.19	.61	.35	.30	.22	2.21	.54	.16	.40	.36	.42	.45	.15	.53	.04	.23	.05	.07	.03	.14	.02				
PIIMOHUA 89	17.00																																
POHAKULOA 107	.85															.85																	
PUKAU 95.1	.12														.11	*									.01							1.82	
PUU KIME 120	1.82																																
PUU LAU 102.1	1.20																															1.20	
PUU LEHUA 73	1.55																															1.55	
PUU MALI 113	1.83																																
PUUKUHUA 167	2.76				.18	.18	.07	.02			.08	.03	.01		.17		.04	.15	.09	.12	.02	*		.55	.11	.01	.79	.14	*				
PUU OO 82	6.07	.02	.01					.37	.57		.13	.27	.15	.26	2.65	.42	.09	.10	.57		.07	.01	.17		.05	.03	.03		.10				
PUU KAAWAA 94.1	.79									.23				.51								4.00	*		.05					3.54	*	*	
SADOLE ROAD 1 84	14.38							.50							6.34	*								.34	*	*	*	*		.10	*	*	
SOUTH POINT CORRAL 3	2.59		.12	*				.06						1.97	*															.10			
UMIKOA 118	3.56									.01		.01			3.19	*		.12	.01						.02				.10				
UPOLU POINT USCG 159.2	1.63				.07	.13	.02	.01	.07		.01			.12			.02	.01	.19	.06	.04	.07	.12	.02	.32	.02		.20		.08		.05	
WAIKAEA SCO 88.2	12.41	.04	.02		.05			T	1.32	1.44	1.20	.58	.11	.77	1.45	.42	.03	.46	.99	.30	1.25	.03	.51	.17	.42	.07	.04	.77					

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages - percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150TH MERIDIAN TIME				Trace	01-09	10-49	50-99	100-199	200 and over	Total		
							2 AM	8 AM	2 PM	8 PM									
HILU, HAWAII, WB AIRPORT	15	14.2	6.4	21	E	03	86	76	68	80	3	5	16	1	3	0	28	36	7.9
HONOLULU, OAHU, WBFC 703	5	13.6	14.3	26	N	28+	72	65	52	67	16	7	1	0	0	0	24	68	5.5
KAPULANI, MAUI, WB AIRPORT	6	12.8	13.9	30	E	14	83	71	54	74	7	5	0	0	0	0	12	73	5.2
LIHULU, KAUAI, WB AIRPORT	6	11.4	12.0	21	NE	25	65	78	70	82	0	17	4	0	0	0	21	70	5.5

DAILY TEMPERATURES

HAWAII
JUNE 1968

Station		Day of Month																																Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	75 49	76 47	74 49	72 54	75 53	73 49	74 48	75 53	75 58	73 53	73 58	72 56	73 59	75 58	73 58	71 59	74 57	74 57	75 56	75 57	75 59	74 58	75 58	77 54	73 48	75 57	74 59	75 61	73 58	78 59	74.2 55.3		
KILAUEA POINT 1133	MAX MIN	85 72	86 74	84 74	82 72	86 75	84 71	85 72	83 74	84 74	86 72	85 71	83 73	86 71	85 72	83 71	83 71	86 74	84 72	85 70	82 69	84 73	83 74	81 73	86 70	86 68	87 65	86 73	84 75	84 75	81 71	84.3 71.9		
LIHUE W8 AP 1020.1	MAX MIN	82 66	83 68	82 73	83 70	83 74	83 74	83 70	83 72	83 75	83 75	82 73	83 71	83 74	83 72	83 74	83 71	83 74	83 73	83 70	83 74	83 74	83 75	84 73	84 72	84 74	83 75	83 74	83 75	83 71	83 71	83.0 72.6		
MAKAHULENA POINT 940.1	MAX MIN	86 71	85 70	85 71	85 72	86 75	86 75	86 72	86 73	85 76	85 72	85 72	85 73	86 73	86 75	85 75	85 75	85 74	84 74	86 72	86 74	85 74	85 76	87 73	87 76	87 75	87 74	86 75	87 74	86 76	87 73	85.5 73.6		
MANA 1026	MAX MIN	88 68	88 66	88 65	88 68	88 67	88 67	88 67	88 67	89 68	90 69	88 65	92 67	90 68	87 69	90 66	91 66	91 66	91 66	88 67	88 67	89 67	89 67	88 68	89 69	89 67	92 68	90 67	91 67	91 67	92 68	89.2 67.3		
NIU RIDGE 1035	MAX MIN	81 63	83 64	83 65	84 66	84 63	83 65	83 64	82 64	85 65	84 64	84 63	85 65	84 65	84 66	85 65	83 64	85 65	85 64	86 65	86 65	86 65	86 65	85 65	84 65	85 65	85 65	85 65	84 64	83 63	85 65	84.1 64.5		
WAIKAI LOWER 1054	MAX MIN	82 59	83 60	82 60	82 67	82 67	82 67	83 64	82 68	82 68	82 67	80 67	80 66	82 68	82 69	81 66	81 67	81 67	81 66	81 66	80 65	80 67	81 68	81 69	81 68	81 66	82 66	82 67	81 68	80 69	80 68	80 65	81.3 66.3	
* * *																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	87 64	87 64	87 65	87 67	87 69	89 67	88 69	88 70	88 69	87 70	87 72	88 68	86 70	86 69	86 70	85 72	84 68	86 71	86 69	87 69	86 68	86 70	87 70	86 70	87 71	86 70	87 70	87 71	86 71	88 71	88 71	86.6 69.3	
HONOLULU W8FC 703	MAX MIN	88 68	87 68	86 72	88 72	89 74	88 74	88 74	88 72	87 75	87 74	86 73	87 74	86 73	88 74	87 73	88 74	87 73	88 73	87 74	87 73	87 74	87 73	89 74	89 75	88 74	88 71	88 75	88 76	89 75	88 74	87.5 73.3		
HONOLULU SUBSTA 704	MAX MIN	84 72	82 71	83 75	83 74	84 75	84 75	84 73	83 77	83 76	82 75	82 74	83 73	81 75	83 76	83 76	81 74	82 74	82 73	82 75	83 75	83 76	83 76	83 77	83 75	82 74	82 71	83 76	83 78	83 77	83 74	82.7 74.7		
KAHUKU 912	MAX MIN		85 67	83 73	84 75	85 75	85 74				85 73	85 73	83 73	83 73			84 74	83 73	85 72	84 71				85 66	85 73	84 72	85 76	85 73	84 72	85 76				
KANEDHE MAUKA 781	MAX MIN	85 69	85 69	83 69	86 74	84 74	80 73	85 73	80 73	82 74	82 73	84 73	84 72	83 74	82 72	83 74	84 71	83 71	82 74	81 73	81 74	82 73	83 75	83 75	82 72	83 71	83 72	82 71	82 74	84 73	84 72	83.0 72.6		
LUALUALEI 804	MAX MIN	80 75	87 72	85 70	85 70	80 70	88 73	86 74	84 75	86 78	86 76	86 76	85 75	84 76	86 74	86 74	85 75	85 75	85 75	85 76	85 76	85 75	85 76	86 77	86 76	86 76	86 76	86 76	86 78	86 78	85 75	85.2 74.9		
MAKAPUU POINT 724	MAX MIN	82 73	81 74	81 74	85 75	81 80	80 74	81 72	81 74	83 71	85 74	80 73	80 72	81 73	80 72	82 73	80 72	80 71	83 72	80 79	82 74	80 72	83 73	80 74	80 72	84 73	80 72	83 74	84 72	81 74	83 73	82.7 72.7		
OPAEOUA 870	MAX MIN	90 67	86 61	85 65	80 67	80 67	83 67	86 67	81 67	82 69	82 66	80 67	83 66	81 67	82 68	82 70	81 67	78 66	82 70	81 67	81 67	81 67	80 68	86 69	82 67	82 68	85 66	84 68	80 68	82 72	85 66	84.3 67.1		
PRI WAIKAWA 820.2	MAX MIN		87 61	85 66	85 69	87 65	88 68	85 67	84 67	86 67	85 67	82 66	85 66	86 68	83 69		86 68	84 69	86 67	86 69	86 66	84 69	86 68	84 68	86 68	87 68	85 68	86 72	85 70	86 68	86 68	85.3 67.6		
WAIKAWA 847	MAX MIN	88 64	88 61	87 63	87 68	87 68	88 68	90 68	84 68	86 69	86 66	87 66	87 66	86 68	86 68	85 68	85 68	85 68	87 66	80 66	87 66	87 66	85 66	86 66	88 69	87 64	87 62	86 68	87 68	86 68	83 68	86.1 66.5		
WAIKIKI 717.2	MAX MIN	88 65	88 65	87 71	86 73	87 75	88 73	89 74	89 74	87 74	87 73	86 74	86 73	87 75	86 74	85 75	85 74	85 74	86 74	87 73	87 73	84 73	86 75	86 75	87 75	87 73	87 71	86 74	87 76	86 75	87 72	86.5 73.2		
* * *																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	83 68	83 68	82 71	82 71	83 73	84 67	85 72	82 69	82 69	83 70	82 70	82 72	81 72	83 70	82 70	83 69	81 72	80 73	83 73	83 69	83 68	83 69	84 69	85 73	83 73	84 71	82 69	82 69	83 70	83 70	82.7 70.3		
* * *																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	78 65	77 64	80 62	79 63	81 64	80 64	82 66	77 66	80 67	79 66	77 67	78 65	79 64	79 66	77 67	77 65	76 67	79 66	79 66	78 66	81 67	80 67	79 67	80 68	79 67	75 67	80 68	79 68	78 67	83 67	78.8 65.9		
* * *																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	70 51	69 52	74 54	74 56	73 53	71 51	70 52	69 52	66 44	64 44	64 48	63 49	64 44	67 47	65 51	59 48	62 47	63 46	64 45	62 44	70 55	70 53	73 54	74 56	72 53	65 41	64 50	64 53	71 52	65 46	67.4 49.7		
HALEAKALA SUMMIT 338.4	MAX MIN	62 46	59 46	62 48	62 44	63 50	62 42	62 42	62 41	62 38	62 43	60 45	59 46	61 49	55 36	62 41	61 45	58 39	53 46	54 47	57 49	58 49	59 45	60 48	61 45	66 42	56 40	56 38	53 42	59 42	54 42	59.3 43.9		
HANA AIRPORT 355	MAX MIN	85 69	86 66	86 71	86 73	87 73	87 73	87 81	83 76	86 71	85 70	84 70	85 69	84 69	85 73	82 69	83 68	83 74	82 74	82 72	82 72	85 73	86 73	85 72	84 74	83 71	84 68	84 74	85 74	89 70	84 71	84.8 71.2		
KAANAPALI AIRPORT	MAX MIN	85 66	84 66	86 65	84 68	88 72	68 68	70 73	72 72		88 68	69 67	67 68	70 68	72 72		72 71	83 71	87 73	87 71	85 72	87 73	89 73	88 72	88 71	88 71	88 72	88 71	88 74	88 71	89 71	70.4		
KAHULUI W8 AP 398	MAX MIN	88 61	88 61	91 62	89 66	92 65	91 63	89 65	90 65	88 66	87 64	90 70	88 70	90 66	87 68	87 70	86 71	87 71	87 71	85 71	89 69	90 65	90 67	89 62	87 72	86 70	88 70	88 70	88 68	85 71	88 67	88.2 67.6		
KAILUA 446	MAX MIN	82 66	81 64	81 63	80 66	81 69	81 69	80 69	79 69	80 69	80 69	78 67	80 69	79 69	78 68	79 68	79 68	79 68	80 67	79 68	79 67	79 67	80 67	81 67	81 67	80 69	80 68	80 68	80 70	80 69	80 68	79.8 67.8		
KULA SANATORIUM 267	MAX MIN	73 57	72 56	71 54	74 55	72 57	73 58	75 59	71 59	75 58	74 59	74 58	76 58	73 59	76 57	72 57	73 58	73 58	74 59	76 57	73 57	73 57	77 58	75 57	76 56	76 56	75 57	75 58	75 57	78 55	75 56	74.2 57.4		
LAHAINA 361	MAX MIN	87 67	86 66	85 66	87 68	86 68	88 69	87 71	87 70	88 68	88 68	86 69	86 69	87 71	89 71	88 67	87 71	89 69	88 71	87 70	87 69													

DAILY TEMPERATURES

HAWAII
JUNE 1968

Continued

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF HAWAII																																	
HAINA 214	MAX MIN	83 63	83 64	83 64	82 66	82 68	82 65	83 64	83 67	83 64	84 65	82 67	84 67	83 67	82 63	82 67	82 66	83 66	81 68	83 67	80 67	83 67	83 67	82 67	82 67	84 65	85 64	83 67	83 66	82 66	83 65	82.7 65.9	
HAWAII VOLCANO NP HQ 54	MAX MIN	69 53	69 53	71 53	71 54	69 55	70 54	73 58	68 55	68 56	69 55	68 55	66 57	66 54	67 54	70 55	70 54	69 56	63 57	68 54	68 55	71 59	66 54	72 56	70 55	72 56	70 55	72 57	68 58	70 55	72 55	69.0 55.3	
HILU WB AIRPORT 87	MAX MIN	84 69	86 70	86 69	85 70	85 68	88 68	84 69	83 70	85 68	81 70	84 67	83 68	83 70	82 71	83 68	83 69	82 69	83 70	84 69	85 68	84 70	84 67	83 70	83 69	85 70	84 72	85 74	84 69	86 67	83.9 69.2		
KAINALIU 73.2	MAX MIN	78 63	78 64	78 65	79 64	79 66	81 66	79 64	78 66	81 65	79 66	80 65	79 65	80 63	78 65	79 64	81 65	79 65	78 65	76 65	79 64	79 64	79 63	80 64	81 65	81 66	81 64	80 65	82 65	82 65	80 64	79.5 64.9	
KAMUELA 192.2	MAX MIN	80 54	75 56	74 53	74 52	75 55	76 55	76 58	76 60	76 57	73 60	70 60	74 57	75 53	76 53	76 56	73 57	73 57	73 56	75 60	71 58	74 57	73 58	74 56	74 60	72 58	73 59	75 60	74 59	74 59	71 59	74.2 57.1	
KAMUELA AIRPORT 191	MAX MIN	76 54	76 56	76 57	74 56	76 57	76 56	76 56	76 60	76 60	74 57	76 55	76 55	75 56	74 53	73 56	74 57	75 55	72 52	74 48	74 49	75 51	75 53	75 52	74 57	72 54	74 58	76 59	74 57	74 60	74.7 55.2		
KEAAL 92	MAX MIN	85 66	85 66	85 66	85 66	85 67	85 65	86 65	85 66	85 66	85 66	80 66	83 66	82 67	84 65	84 65	82 67	84 65	75 66	82 66	85 66	85 66	85 66	85 66	84 67	85 66	85 66	85 70	85 66	85 66	83.9 66.3		
KEALOKEUA 26.2	MAX MIN	78 64	78 65	77 62	79 62	79 67	81 66	79 64	78 65	81 66	80 63	79 65	79 66	78 64	78 64	80 64	80 66	77 63	76 63	79 65	80 65	81 64	81 66	80 66	82 66	80 66	82 64	81 64	82 64	81 65	79.4 64.5		
KOHALA MISSION 175.1	MAX MIN	82 64	82 66	82 69	81 69	81 69	82 69	82 65	81 70	81 70	82 69	80 70	82 69	82 68	83 69	80 70	81 69	81 69	81 68	78 70	80 70	81 69	80 70	81 70	80 70	80 68	81 68	83 69	81 70	81 69	81.1 68.9		
KONA AIRPORT 68.3	MAX MIN	85 67	84 67	83 66	84 68	84 66		84 66	84 66	83 67	84 66	84 66	83 66	84 66	84 66	85 65	84 65	83 65	84 66	84 66	84 66	83 66	85 67	85 66	85 66	85 67	84 67	84 67	84 67	84 66	84.0 66.1		
KULANI CAMP 79	MAX MIN	68 49	67 41	68 43	67 49	68 48	67 42	71 52	63 54	64 46	65 45	65 48	62 49	63 53	64 50	67 46	61 50	65 50	65 54	63 52	63 58	64 45	67 55	67 51	69 51	60 51	67 51	66 51	64 54	68 48	65.4 49.3		
MAUNA KEA BEACH 98	MAX MIN	87 70	89 70	88 71	88 71	84 70	87 71	87 71	82 71		87 74	90 74	91 70	86 71	83 72	84 73	86 72	85 73	84 74	87 72	88 71	85 73	95 73	94 69	90 62	90 75	88 75	87 73	91 75	89 72	96 72	87.9 71.7	
MAUNA LOA SLOPE OBS	MAX MIN	58 40	63 42	60 42	62 40	62 46	58 43	58 40	53 36	52 36	55 36	53 38	51 38	52 37	44 32	48 35	54 38	56 38	57 38	56 44	60 43	58 41	60 42	60 43	58 40	58 39	58 38	52 38	53 39	58 38	54 36	56.0 39.2	
MOON AIN VIEW 91	MAX MIN	82 61	81 60	80 60	80 60	78 60	79 59	82 59	76 62	75 65	76 62	72 60	79 61	74 62	76 61	77 61	78 61	74 63	76 63	70 62	79 61	80 62	78 61	78 62	78 62	80 62	81 62	78 63	79 60	81 60	77.8 61.6		
NAALEHU 14	MAX MIN	81 70	82 68	82 68	81 68	82 69	82 69	82 68	82 69	81 68	81 68	81 68	80 71	79 64	79 64	82 68	82 68	81 68	82 71	85 69	81 68	82 68	82 69	82 69	82 66	83 66	82 69	82 70	82 70	82 66	81.6 68.5		
OKALA 223	MAX MIN	83 69	83 69	83 71	82 69	83 71	83 71	82 72	84 70	84 70	83 70	79 69	83 70	84 70	84 70	79 68	82 69	82 69	79 69	81 69	78 69	82 69	82 69	82 69	82 69	82 69	82 69	81 70	82 71	81 70	84 68	82.0 69.5	
OPINIALE 2 24.1	MAX MIN	74 60	78 60	76 60	82 63	78 64	82 63	80 64	81 62	83 64	77 64	78 66	77 63	77 63	82 61	80 63	78 64	75 62	74 63	79 63	78 63	81 63	82 61	81 62	80 61	82 62	84 62	80 64	80 63	81 60	79.5 62.6		
PAHALA 21	MAX MIN	81 63	79 64	80 65	80 67	81 66	83 64	82 67	80 68	81 65	81 65	80 64	83 64	80 65	81 65	81 64	82 68	81 64	81 64	81 66	78 64	80 63	82 63	80 67	80 65	82 66	81 68	82 67	82 62	84 62	81.0 65.1		
UPOLU POINT USCG 159.2	MAX MIN	87 69	86 69	85 70	86 70	86 72	84 71	85 72	85 71	85 71	86 72	84 72	85 72	85 70	85 70	85 70	85 71	85 70	85 71	85 70	82 70	84 70	85 71	85 71	84 71	85 71	86 70	86 70	83 76	85 73	84 72	84.9 71.0	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP	.31	.40	.35	.33	.37	.38	.38	.33	.30	.35	.38	.27	.26	.33	.34	.48	.39	.42	.35	.34	.34	.30	.34	.32	.43	.42	.42	.39	.41	.39	10.82 5103 88.6 68.0	
	WIND	87	89	125	140	179	166	122	142	167	169	175	151	164	185	193	202	218	206	187	162	188	195	192	171	163	184	189	212	203	177		
	MAX	91	90	89	88	91	91	91	91	89	91	88	86	89	89	89	88	87	87	88	86	88	87	86	88	89	90	89	84	88	90		
	MIN	65	66	66	66	68	68	69	70	69	69	68	67	68	69	68	68	68	67	68	67	68	69	69	69	68	68	69	69	68	68		
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2																																	
HONOLULU OBSERV 702.2	EVAP	.30	.28	.18	.19	.27	.25	.30	.14	.28	.30	.34	.23	.29	.22	-	.37	.23	.32	.31	.30	.21	.27	.30	.33	.37	.34	.25	.31	.34	.31	8.418 1210 93.8 70.4	
	WIND	28	28	29	27	36	33	31	34	41	40	50	37	39	25	55	58	49	47	51	45	36	46	44	41	40	43	35	54	47	41		
	MAX	95	96	92	89	94	94	97	89	94	96	96	90	94	93	96	94	92	94	94	92	90	93	93	96	98	96	92	95	94	96		
	MIN	68	68	67	68	71	70	71	72	70	72	71	70	72	71	66	70	69	71	71	70	70	71	71	73	71	72	71	73	71	72		
* * *																																	
ISLAND OF HAWAII																																	
HILO WB AIRPORT 87																																	
HILO WB AIRPORT 87	EVAP	.25	.15	.14	.17	.29	.31	.12	.09	.18	.06	.14	.10	.09	-	.29	.12	.05	.14	.08	.12	.17	.22	.17	.20	.26	.17	-	-	.32	.22	5.138 16988 87.1 68.1	
	WIND	61	68	100	82	100	75	48	63	57	46	56	52	63	45	47	52	-	-	32	44	51	40	43	42	51	60	33	85	66	23		
	MAX	90	92	90	83	86	92	86	88	89	83	84	84	84	83	85	86	85	87	83	86	87	85	84	88	92	89	87	90	92	92		
	MIN	67	68	67	68	68	65	69	69	66	69	67	67	72	69	67	68	67	68	68	67	67	70	67	67	69	70	70	71	70	66		

See Reference Notes Following Station Index

DAILY PRECIPITATION

HAWAII
DELAYED DATA
JUNE 1968

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																		
JANUARY 1968																																		
HUAILAI 72	A	5.36																																
KAAHAPALI AIRPORT		7.73																																
KIILAKAA A F A	A	13.10	.01	.03	.04	.01	.40	.03					.05		.04			2.30		1.95	1.35	.02			.09					.04	1.35	.02		
* * *																																		
FEBRUARY 1968																																		
KAAHAPALI AIRPORT		6.42	T	.15	.02	.08		.20	.31					.06			.40	.26	.10	.04	T	1.88	2.40	.12			.40							
* * *																																		
MARCH 1968																																		
KAAHAPALI AIRPORT		3.91			.04	.13	.25				.02	.15	.28	.13	.80	.38	1.12	.24	T	.04	.06		T		.12	.01						.03		
MOUNT WAIALEALE 1047		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.24	.24	.20	1.49	4.06	4.68	3.86	.16	.12	.12	2.72	1.65	.08		
* * *																																		
APRIL 1968																																		
KAAHAPALI AIRPORT		2.69		T	.10	T		.19	T	T	.28	T	.02			.18	.02	T		.17	1.40	.24		.11	T	.02		.01						
MOUNT WAIALEALE 1047		40.25	.04	.28	.43	.94	.59	.28	.39	.28	.79	.16	.04	1.22	.63	2.72		.20	.63	3.78	1.61	.45	.12	2.76	6.77	.49	3.66	2.13	1.89	1.22	1.57			

DAILY TEMPERATURES

HAWAII
DELAYED DATA
JUNE 1968

Station			Day of Month																															Average	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
•	•	•	MAX MIN	82 65	80 69	80 66	77 62	79 67	79 65	79 64	78 63	78 59	78 63	79 62	78 64	79 66	79 59	79 61	80 64	79 67	81 71	81 71	81 73	78 73	80 70	82 67	80 66	79 64	79 64	81 66	71 67	80 63	80 63	76 65	79.1 65.5
JANUARY		1968		KAANAPALI AIRPORT																															
•	•	•	MAX MIN	78 62	77 64	80 64	80 70	81 65	81 63	82 70	79 66	80 65	79 61	79 61	80 70	81 65	80 65	81 72	80 69	77 64	77 67	80 70	81 72	81 69	76 66	81 67	80 64	82 72	74 65	79 64	82 65	81 62			79.6 66.2
FEBRUARY		1968		KAANAPALI AIRPORT																															
•	•	•	MAX MIN	82 65	83 67	82 68	70 66	74 67	83 67	82 65	82 68	82 64	86 66	81 70	79 70	82 67	76 68	77 64	79 65	80 67	82 69	80 63	76 64	74 67	78 66	82 68	77 68	76 69	82 68	81 67	81 68	81 70	80 68	79.7 67.0	
MARCH		1968		KAANAPALI AIRPORT																															
•	•	•	MAX MIN	81 65	81 67	82 71	79 69	80 65	81 63	84 68	83 69	84 66	79 63	78 68	82 71	82 65	85 68	84 74	84 69	80 70	82 68	83 70	82 68	84 70	84 67	84 71	85 73	83 73	84 71	81 67	83 69	83 71	84 72	82.4 68.7	
APRIL		1968		KAANAPALI AIRPORT																															

DATE	TABLE	STATION	CORRECTIONS
ISLAND OF KAUAI			
DECEMBER 1967	CLIMATOLOGICAL DATA	N WAILUA DITCH 1051	TOTAL PRECIPITATION 35.26; ISLAND AVERAGE 17.96
DECEMBER 1967	DAILY PRECIPITATION	N WAILUA DITCH 1051	TOTAL 35.26
ISLAND OF OAHU			
NOVEMBER 1967	CLIMATOLOGICAL DATA	KANEOHE MAUKA 781	TOTAL PRECIPITATION 7.95, DEPARTURE FROM NORMAL 2.67, GREATEST DAY OF PRECIPITATION 3.11, DATE 17TH, NUMBER OF DAYS WITH PRECIPITATION .10 OR MORE 16, .50 OR MORE 3, 1.00 OR MORE 1; ISLAND AVERAGE 6.21
NOVEMBER 1967	DAILY PRECIPITATION	KANEOHE MAUKA 781	TOTAL 7.95, AMOUNT ON 3D .10, 5TH .00, 6TH .00, 7TH .10
DECEMBER 1967	CLIMATOLOGICAL DATA	KAHUKU 912	TOTAL PRECIPITATION 11.61, DEPARTURE FROM NORMAL 7.33
DECEMBER 1967	CLIMATOLOGICAL DATA	OPAEULA 870	TOTAL PRECIPITATION 7.19, DEPARTURE FROM NORMAL .22
DECEMBER 1967	CLIMATOLOGICAL DATA	PRI WAHIAWA 820.2	TOTAL PRECIPITATION 11.57
DECEMBER 1967	CLIMATOLOGICAL DATA	WAHIAWA DAM 863	TOTAL PRECIPITATION 10.37, ISLAND AVERAGE 13.23
DECEMBER 1967	DAILY PRECIPITATION	KAHUKU 912	TOTAL 11.61
DECEMBER 1967	DAILY PRECIPITATION	OPAEULA 870	TOTAL 7.19
DECEMBER 1967	DAILY PRECIPITATION	PRI WAHIAWA 820.2	TOTAL 11.57
DECEMBER 1967	DAILY PRECIPITATION	WAHIAWA DAM 863	TOTAL 11.37
ISLAND OF MOLOKAI			
DECEMBER 1967	CLIMATOLOGICAL DATA	MAUNALOA 511	TOTAL PRECIPITATION 7.70, DEPARTURE FROM NORMAL 4.20, ISLAND AVERAGE 9.13
DECEMBER 1967	DAILY PRECIPITATION	MAUNALOA 511	TOTAL 7.70
ISLAND OF MAUI			
APRIL 1967	DAILY PRECIPITATION	OLINDA 332	TOTAL 9.05
DECEMBER 1967	DAILY PRECIPITATION	KAILIILI 436	TOTAL 15.44
ISLAND OF HAWAII			
DECEMBER 1967	DAILY PRECIPITATION	KAPAPALA RANCH 36	TOTAL 11.71
DECEMBER 1967	DAILY PRECIPITATION	PUUOKUMAU 167	TOTAL 10.01
ANNUAL 1967	SPECIAL WEATHER SUMMARY NOTE BOTTOM COVER PAGE (153)		THIS STATEMENT SHOULD READ: "A SPECIAL WEATHER SUMMARY DESCRIBING UNUSUAL WEATHER IN 1967 WAS INCLUDED IN THE JANUARY, MARCH, APRIL, MAY, JUNE, JULY, AUGUST, OCTOBER, NOVEMBER, AND DECEMBER ISSUES OF THIS PUBLICATION."
ANNUAL 1967	TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL	KANEOHE MAUKA 781	TOTAL NOVEMBER PRECIPITATION 7.95, DEPARTURE FROM NORMAL 2.67, ANNUAL TOTAL 97.60; DEPARTURE FROM NORMAL 32.51, ISLAND OF OAHU AVERAGE 6.67

HAWAII
NE 1968

[illegible]

STATION INDEX

HAWAII
JUNE 1968

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII												
MOAULA 18	A 6407	03	KAU	3 19 11	155 30	600		MO				
MOUNTAIN VIEW 93	6552	02	RUNA	2 19 33	155 07	1430	6A	6A				
NAALICHU 14	A 6585	03	KAU	3 19 04	154 35	673	RA	8A				
NAPPOPOO 28	A 6557	04	S. KONA	4 19 28	154 44	394		7A				
NALANI FOREST 39.6	A 6711	02	RUNA	2 19 19	155 08	1400		VAR				
NILILI 179	A 6709	01	N. KOHALA	1 20 14	155 45	75		6A				
OKALA 223	7131	02	N. HILO	2 20 01	154 17	630	7A	7A				
OPHIOMALE 2 24-1	7168	04	S. KONA	4 19 16	154 33	1270	7A	7A				
OAKHID LAND EST 91.4	A 7184	02	RUNA	2 19 34	155 00	645		VAR				
PAAIHU 217	7204	01	HAWAIIA	1 20 05	155 26	615		7A				
PAAJULO 221	7112	01	HAWAIIA	1 20 03	155 22	880		7A				
PAHALA 21	7471	03	KAU	3 19 12	155 29	870	8A	6A				
PANOA 65	7445	02	RUNA	2 19 30	154 57	674		6A				
PAKAO 37	A 7449	03	KAU	3 19 22	154 28	4700		MO				
PARAKOU 144.1	7711	02	S. HILO	2 19 47	155 06	200		7A				
PARAKOU MAUKA 140.1	7721	02	S. HILO	2 19 47	155 08	1270		7A				
PEREPEFO MAUKA 144	8000	02	S. HILO	2 19 41	154 04	100		7A				
RIKONUA 89	A 8051	02	S. HILO	2 19 44	155 10	1730		MO				
ROHAKUOLA 157	A 8063	02	HAWAIIA	2 19 45	155 32	6511		VAR				
ROK 95.1	8156	14	KOHALA	4 19 59	154 30	6		6A				
ISLAND OF HAWAII												
PUU KIME 120	A 8393	01	HAWAIIA	1 19 54	155 24	7750		MO				
PUU LAU 102.1	A 8452	05	HAWAIIA	5 19 50	155 36	7440		MO				
PUU LEHUA 73	A 8460	04	N. KONA	4 19 34	155 49	4490		MO				
PUU MALI 113	A 8414	01	HAWAIIA	1 19 55	155 26	6960		MO				
PUUOKUMAU 167	A 8548	01	N. KOHALA	1 20 12	155 50	1800		7A				
PUU OO 82	A 8550	02	S. HILO	2 19 44	155 23	6340		6A				
PUU WAHAA 94.1	A 8555	05	N. KONA	5 19 47	155 51	2520		7A				
SADDLE ROAD 1 84	A 8590	02	S. HILO	2 19 42	155 12	2340		WM				
SOUTH POINT CORRAL 3	A 8679	03	KAU	3 18 57	154 41	400		WI				
S POINT TRACKING STA	8679	03	KAU	3 18 57	155 41	305						
UNIKOIA 118	6780	01	HAWAIIA	1 19 59	155 23	3420		7A				
URULU POINT USCG 159.2	6830	01	N. KOHALA	1 20 15	155 53	61	8	8A				
WAIAKOA SCO 89.2	9025	02	S. HILO	2 19 40	155 08	1050		7A				
WAIAKANOULUA 176.6	9350	01	N. KOHALA	1 20 08	155 47	3830						
ISLAND OF HAWAII												
KUKAIAU RANCH CO												
STATE DIV OF FISH-GAME												
GREENWELL RANCH												
KUKAIAU RANCH CO												
KOHALA DITCH CO LTD												
W. H. SHIPMAN, LTD												
OILLINGHAM RANCH INC												
ROAD OF WTR SUPPLY												
HITCHINSON SUGAR CO												
FEDERAL ELECTRIC CORP												
KUKAIAU RANCH CO												
U. S. COAST GUARD												
SHINICHI KANEHIRO												
KAHUA RANCH												

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are terms of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation", "Daily Temperature", table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS: For all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on or earlier date or dates.

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

H Adjusted to a full month.

J "Supplemental Data" table.

M Dee or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, as amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletins they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletins.

MO Gage read once monthly, usually on the last day.

OF Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time in near sunset.

VAR Observation time is variable.

W1 Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

* Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

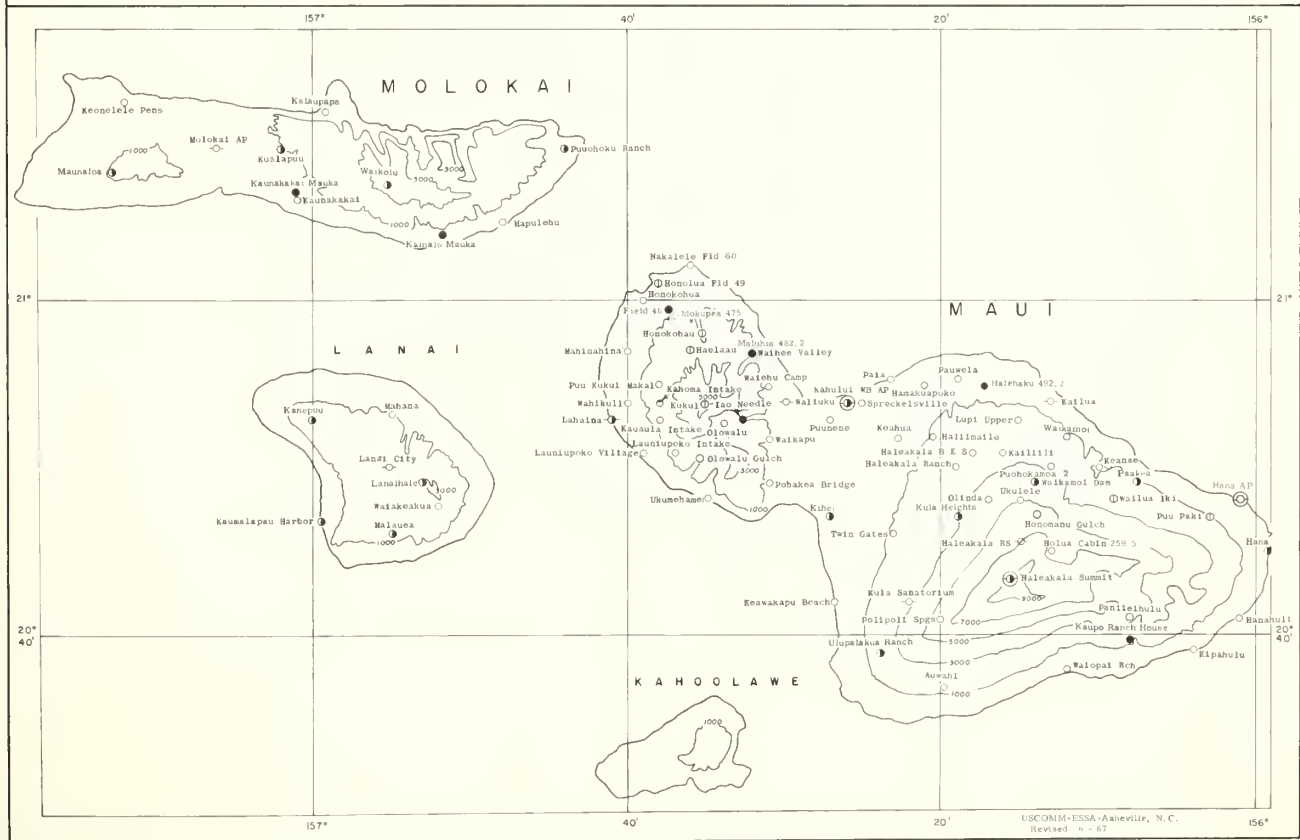
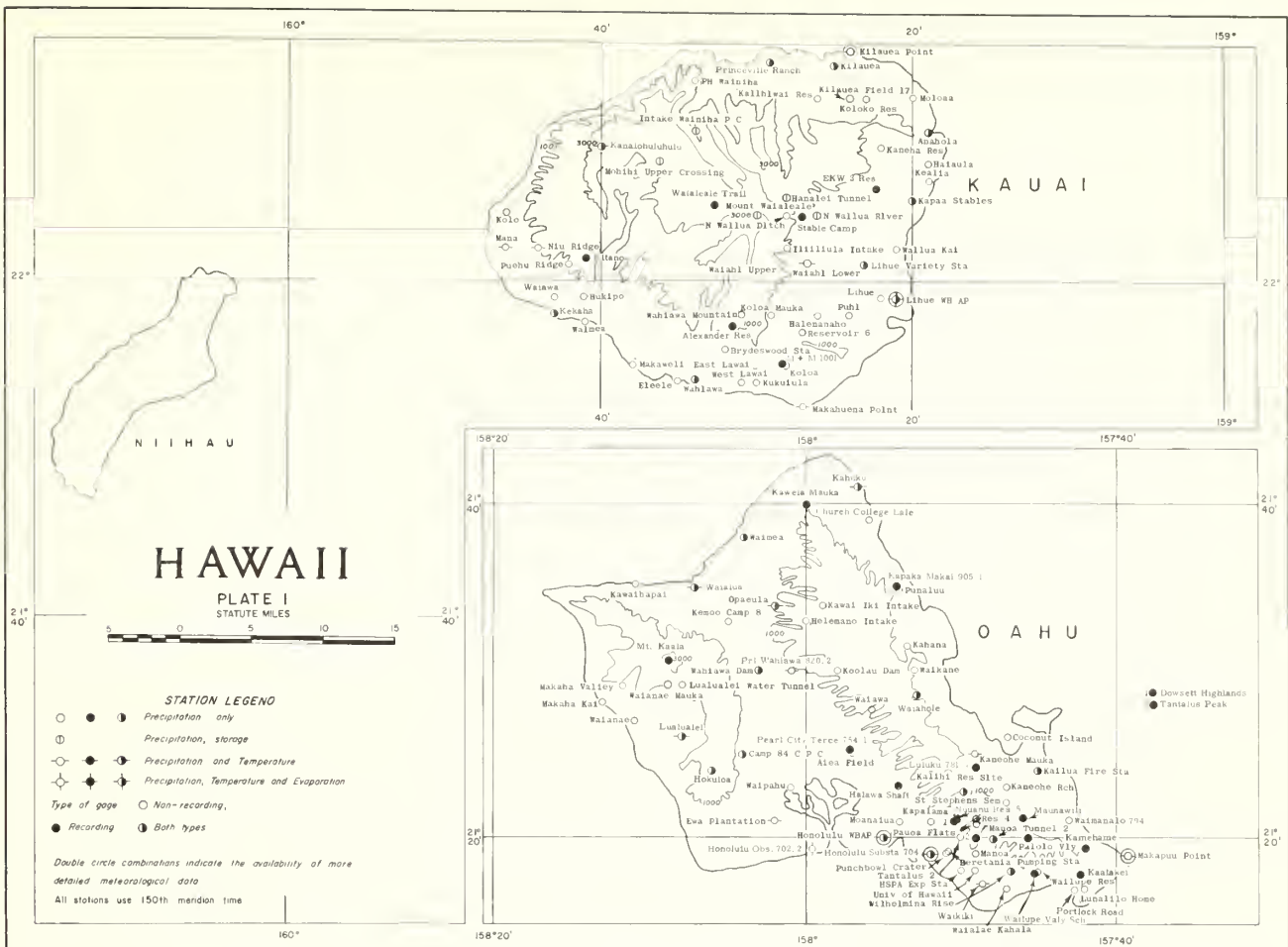
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

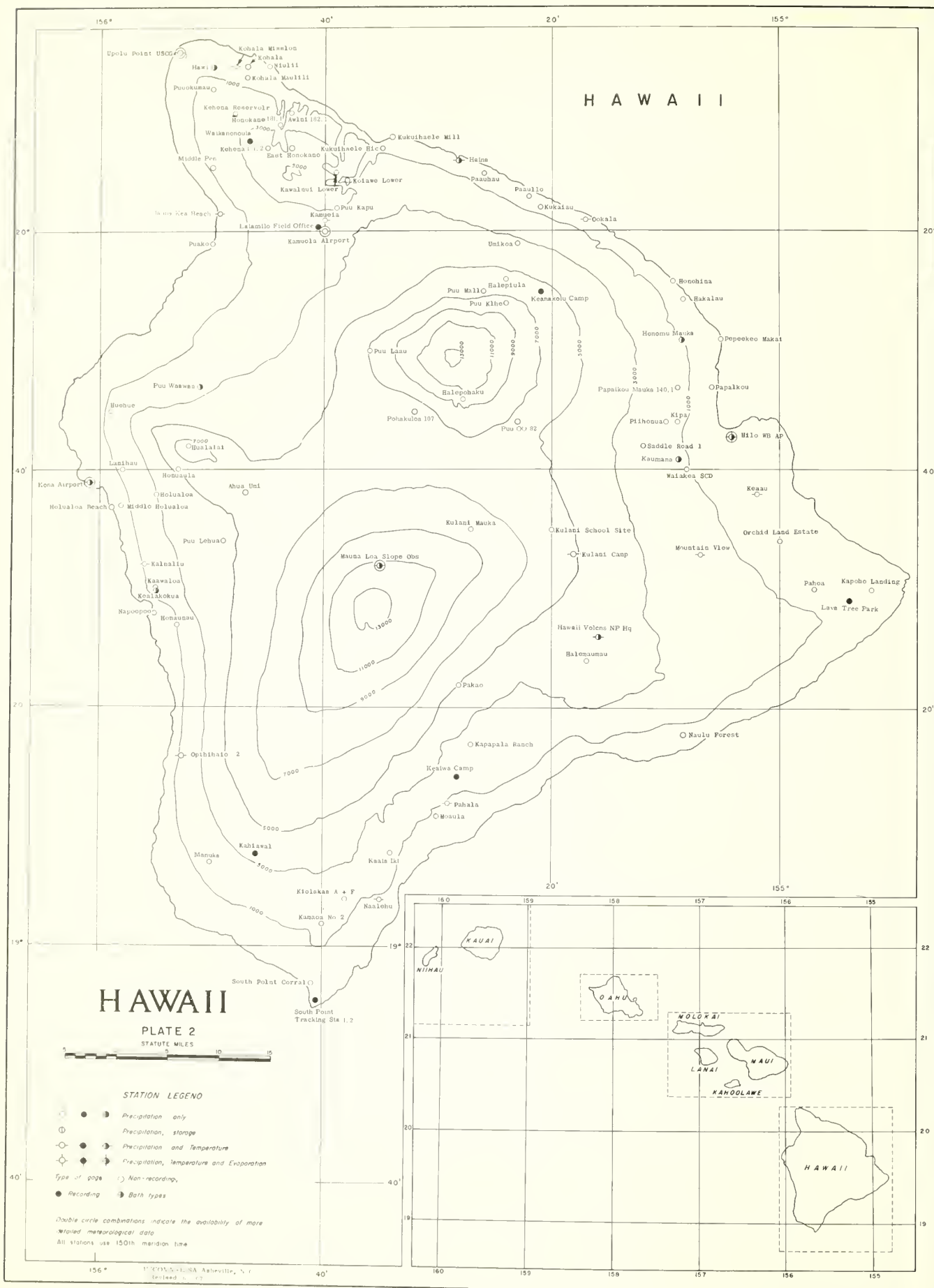
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20462.

Information concerning the history of changes in locations, elevations, exposure, etc., of stations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20462.

USCOW-ESSA-ASHEVILLE-10/1/68-890

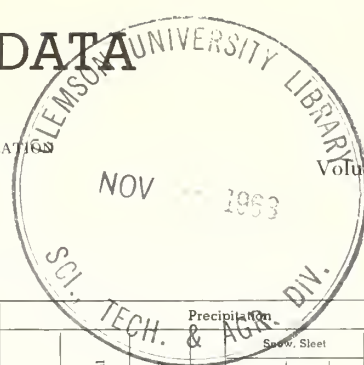






CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
C. R. SMITH, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE



HAWAII

JULY 1968

Volume 64 No. 7

CLIMATOLOGICAL DATA

Station	Temperature										Precipitation									
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet		No. of Days	
									Max.	Min.	Total	Max. Depth on Ground					Date	10 or More	50 or More	1.00 or More
* * * ISLAND OF KAUAI																				
ANAHOLA 1111	A												3.06	.67						
KANALOHULU 1075	A	74.7	56.5	65.6		80 27	50 10+		0	0	0	0	1.84		.56 24	.00	0		7	1
KAPAA STABLES 1104	A												4.89		1.30 18	.00	0			0
KILAUEA FIELD 17 1135	A												6.84	-.07	1.88 18	.00	0			0
KILAUEA POINT 1133	A	85.9	72.7	79.3		88 28+	68 17		0	0	0	0	2.93		.65 23	.00	0		9	1
KOLOA 936	A												6.76	1.70	1.29 18	.00	0			
LIHUE WB AP 1020.1	R	84.0	72.4	78.2	.6	85 31+	66 4+		0	0	0	0	1.70	-.24	.33 23	.00	0		6	0
MANA 1026	A	89.7	69.4	79.6	1.7	93 22	65 1		18	0	0	0	1.87	1.31	1.64 18	.00	0		2	1
N WAILUA OITCH 1051	A												14.12		2.30 18	.00	0			
PH WAINIHA 1115	A												10.72	.64	2.40 24	.00	0		13	7
PUEHU RIDGE 1040	A												.99		.65 18	.00	0		3	1
WAILIWA 930	A												3.30	1.61	1.25 24	.00	0		1	1
WAIAMI LOWER 1054	A	82.4	66.3	74.4		85 10	60 3		0	0	0	0	10.86		1.50 18	.00	0		21	11
WAIPIA 947	A												1.04	.57	.55 18	.00	0		2	1
ISLAND																				
75.4																				
5.04																				
.00																				
* * * ISLAND OF OAHU																				
HONOLULU OBSERV 702.2	R	89.0	73.9	81.5	2.7	92 5	70 4		12	0	0	0	.33		.22 18	.00	0		1	0
HONOLULU WBFC 703	A	85.6M	73.4M	79.5M	1.8	89 29	67 5		0	0	0	0	.29	-.15	.11 17	.00	0		1	0
KAHUKU 912	A	84.1	72.6	78.4	1.9	86 8+	69 4		0	0	0	0	1.76	-.13	.82 23	.00	0		1	0
KANEOME MAUKA 781	A												1.92	-2.39	.29 15	.00	0		8	0
KOOLAUA DAM 833	A												6.75	-3.03	1.85 23	.00	0		10	4
LUALUALEI 804	A	86.3M	74.0	80.2M		90 31+	63 4		2	0	0	0	.24		.15 23	.00	0		1	0
MAKAPUU POINT 724	A	83.6	73.8	78.7		88 19+	72 13+		0	0	0	0	.17	-.67	.08 23	.00	0		0	0
NUUANU RES 4 783	A												3.66	-5.01	1.00 23	.00	0		10	1
OPAEULA 870	A	84.6	67.0	75.8	3.6	90 7+	61 17		2	0	0	0	2.19	-1.11	.60 23	.00	0		1	0
PAOLO VALLEY 718	A												5.15	-5.66		.00	0			
PRI WAILIWA 820.2	A	87.9	67.3	77.6		91 6	63 8+		5	0	0	0	1.33		.85 23	.00	0		3	1
PUNAHUU 884	A												2.33			.00	0			0
WAILIWA DAM 863	A												1.40		.65 23	.00	0		1	0
WAIKOLE 837	A												3.22	-7.72		.00	0			0
WAILIWA 847	A	88.4	66.7	77.6	1.4	92 27+	62 2		8	0	0	0	1.00	.26	.53 23	.00	0		3	1
WAIKIKI 717.2	A	87.8	73.2	80.5		91 7	68 4		5	0	0	0	.10		.07 18	.00	0		0	0
WAIPIHU 750	A												.66	-.01	.27 23	.00	0		3	0
ISLAND																				
78.9																				
1.91																				
.00																				
* * * ISLAND OF MOLOKAI																				
KUALAPUU 534	A												1.81	-.93	1.46 5	.00	0		2	1
MAPULEHU 542	A												2.08	-.86	.55 13	.00	0		8	1
MAUNALOHA 511	A												.40	-.86	.14 8	.00	0		0	0
MOLOKAI AP 524	A	84.1	71.0	77.6		87 27+	68 14+		0	0	0	0	1.44		1.17 5	.00	0		2	1
ISLAND																				
77.6																				
1.43																				
.00																				
* * * ISLAND OF LANAI																				
LANAI CITY 672	A	79.4	67.3	73.4	2.3	82 5+	65 7+		0	0	0	0	1.45	-.27	.67 11	.00	0		3	1
ISLAND																				
73.4																				
1.45																				
.00																				
* * * ISLAND OF MAUI																				
HALEAKALA B E S 434	A												2.94	-1.19	1.38 31	.00	0		6	2
HALEAKALA RS 338	A	67.0	48.5	57.8		73 25	43 10+		0	0	0	0	.90		.18 11	.00	0		3	0
HANA AIRPORT 355	A	87.2	71.2	79.2		89 25+	68 6		0	0	0	0	3.08		.46 25	.00	0		14	0
HONOKOMUA 493	A												1.26	-1.12	.30 31	.00	0		1	0
KAANAPALI AIRPORT	A	88.0	71.8	79.9		90 22+	65 24		2	0	0	0	.75		.15 24	.00	0		1	0
KAHULUI WB AP 398	R	89.1	68.9	79.0	.7	93 16+	62 2		11	0	0	0	.42	-.01	.24 30	.00	0		1	0
KAILUA 446	A	80.7	68.1	74.4	1.7	82 30+	65 4+		0	0	0	0	8.95	-1.20	1.24 31	.00	0		16	2
KEANAE 346	A												12.80	-7.07		.00	0			
KIPAHULU 258	A												5.91	-3.62	1.05 24	.00	0		19	1
KULA SANATORIUM 267	A	74.7	59.1	66.9	.9	79 31	57 29+		0	0	0	0	2.14	.08	.82 5	.00	0		6	0
LAHAINA 361	A	88.0	70.9	79.5		92 31+	68 2		5	0	0	0	.00	-.11	.00	.00	0		0	0
PAIA 406	A												.82	-1.07	.24 30	.00	0		3	0
WAILUKU 392	A	87.5	73.1	80.3	2.9	90 27+	71 29+		3	0	0	0	.96	.25	.29 31	.00	0		3	0
ISLAND																				
74.6																				
3.11																				
.00																				

See Reference Notes Following Station Index

CLIMATOLOGICAL DATA

HAWAII
JULY 1968

Continued

Station	Temperature										Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
									Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
									80° or Above	70° or Above	60° or Above	50° or Above										
ISLAND OF HAWAII																						
MAINA 214	84.0	67.0	75.5	1.4	85	31+	64	8	0	0	0	0	2.34	- 1.12	1.42	14	.0	0		4	1	1
HAWAII VOLCNS NP MO 54	71.1	56.0	63.6	.7	80	5	52	26	0	0	0	0	4.99	- .13	1.66	14	.0	0		10	2	1
HILO WB AIRPORT 87	84.8	68.8	76.8	1.9	88	8	66	10	0	0	0	0	7.43	- 2.39	1.84	14	.0	0		19	5	2
HUEHUE 93.1													3.91	- 1.41			.0	0				
KAINALIU 73.2	79.8	65.0	72.4		83	26	62	2	0	0	0	0	9.24	- .69	2.55	5	.0	0		11	5	3
KAHUELA AIRPORT 191	76.3	55.7	66.0		81	3	52	25+	0	0	0	0	.92		.55	5	.0	0		3	1	0
KEAAU 92	85.7	66.8	76.3	1.9	88	8+	65	11+	0	0	0	0	9.75	- .39	1.80	15	.0	0		17	8	2
KEALAKEKUA 26.2	80.4	64.3	72.4		83	15+	61	1	0	0	0	0	7.09		2.03	5	.0	0		11	3	2
KONA AIRPORT 68.3	84.8M	67.6M	76.2M		86	31+	66	13	0	0	0	0					.0	0				
KUKUIHAELE HIC 199													1.46	- 4.08	.40	15+	.0	0		4	0	0
KULANI CAMP 79	66.8M	48.1M	57.5M		70	31+	44	17+	0	0	0	0	8.21		2.50	14	.0	0		15	5	2
MAUNA KEA BEACH 98	88.5	73.6	81.1		95	30	71	10+	7	0	0	0	.22		.09	5	.0	0		0	0	0
PAHALA 21	81.9	65.1	73.5	.3	85	31+	62	14	0	0	0	0	5.21	3.69	3.34	14	.0	0		4	2	2
POHAKULOA 107													1.29		.71	20	.0	0		3	1	0
PUAKO 95.1													.08		.03	19+	.0	0		0	0	0
PUU HAAHAA 94.1													1.67	- .43	.84	17	.0	0		4	2	0
UMIKOA 118													.88	- 2.11	.55	14	.0	0		2	1	0
WAIKEA SCO 88.2													12.37		3.06	15	.0	0		18	8	3
ISLAND			71.9										4.53				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 95° ON THE 30TH AT MAUNA KEA BEACH 98, HAWAII

LOWEST TEMPERATURE: 35° ON THE 24TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 14.13 INCHES AT WAHIAWA MOUNTAIN 990, KAUAI

LEAST TOTAL PRECIPITATION: .00 INCH AT 10 STATIONS

GREATEST ONE-DAY PRECIPITATION: 6.27 INCHES ON THE 5TH AT MIDDLE HOLUALOA 68.1, HAWAII

DAILY PRECIPITATION

HAWAII
JULY 1968

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
ANAHOLA 1111	A	3.06	1.00	.03					.35	.01		.18			.26			.03	.15					.07	.23	.43	.02			.25	.02	.03	
BRIDGESWOOD STA 985	A	4.00	.41	.76					.39	.01		.43	.30		.27			.04	.12	.03				.43	.50				.04	.02	.28		
EAST LAKE 934	A	6.17	1.12	.12					.39	.01	.04	.53	.27		.60			.01	.32	.17				.42	1.02	.01			.10	.02	.40		
ELELE 927	A	2.20	.27						.34			.20	.06		.07									.09	.07					.10	.02	.09	
HALAULA 1110	A	4.58	.67						.40		.07	.45	.06		.27			.02	.72	.05				.02	.30	.49	.02			.50		.14	
HALENAHMO 1006	A	6.68	1.19	.21				1.03			.56	.19			.35			1.08					.35	.41	.57				.09	.04	.57		
HUKIPU 945	A	.52																															
ILILIULA INTAKE 1050	A	13.71	.33	.32		1.20	1.00	.20	.05	.72	.20	.18	.65	.62	.64	.34	.03		.12	2.61	.25	.35	.65	.12	.59	1.40	.44	.05	.30	.06	.27	.64	
INTAKE WAINIHA PC 1086	A	10.09	1.40		.02					.72			.20			1.29		.59	.05				.24	.45					.11		.14		
KAILIHIWAI RES 1131	A	7.02	.63	.29					.32	.06		.19	.31			.45	.02		1.88	.10			.70	.42	.71	.04	.02			.01	.18	.71	
KANALOHULULU 1075	A	1.84	.02	.09	.04	.08	.05	.02	.05	.02	.03	.02	.11	.11	.13	.02		.01	.14	.12	.01		.03	.15	.56	.01				.25	.03	.02	
KANEHA RESERVOIR 1092	A	7.65	1.45	.35					.40	.13	.04	.28	.25			.57		.22	1.30	.05	.25		.37	.74	1.06	.05				.70		.27	
KAPAA STABLES 1104	A	4.89	.76	.03					.47	.04	.06	.10	.10			.12							.10	.44	.52							.13	
KEALIA 1112	A	2.66	.50						.21		.11	.09	.11			.17		.02	.58	.02			.03	.29	.40					.10		.04	
KEKAHA 944	A	.72	.03															.10	.12						.47								
KILAUEA 1134	A	4.75	.86	.01					.62			.07	.12			.37		.01	.07	.78	.25		.37	.12	.69	.10	.02			.05	.11	.13	
KILAUEA FIELD 17 1135	A	6.64	1.12	.04					.44	.07		.12	.15			.50	.02	.03	1.88	.02			.83	.30	.44	.06				.04	.17	.41	
KILAUEA POINT 1133	A	2.83			.15	.06		.25			.18	.08	.18					.46	.08	.10	.08	.10	.24	.65	.05	.03	.05		.05	.02	.01		
KOLO 1033	A	.91				.06			.08																.22								
KOLDA 936	A	6.76	1.15	.04					.68		.02	.11	.28			.80	.02	.03	1.23	.27			.31	.24	.97	.02				.05	.01	.42	
KOLDA MAUKA 994	A	7.86	1.15					1.26		.63	.57				.47				.51				.65	.58	.71					.21		1.12	
KOLDO RES 1137	A	3.38	1.15	.72				.26		.06	.28				.38			.02	2.40	.07			.32	.55	.32	.02				.10	.10	.28	
KUKUIULA 935	A	3.09	.35	.11				.44		.01	.14	.19			.25			.02	.12	.03	.02		.18	1.09	.01					.01	.01	.23	
LIHUE VARIETY STA	A	4.07	.08			.28			.30	.07	.01	.22	.32	.42		.14	.03		.34	.01	.03		.08	.84	.66					.01		.23	
LIHUE 1020	A	2.90	.87	.03	.02				.19	.04		.46	.07			.19			.07				.07	.34	.29	.05				.12	.01	.06	
LIHUE WB AP 1020.1	R	1.70	.19		T	.02	.04	.08	.01	.10		.06	.08	.09	.01	.06			.04		T	.04	.26	.35			.10			.01	T	.05	
MAKAHUEA POINT 940.1	A	1.72	.05		.13			.04	.02	.01		.01	.22	.13		.04		.02	.01	.23		.09	.75	.02	.44			.02				.01	
MAKANEHI 965	A	.47							.04	.04	.01	.01									.05		.28									.01	
MANA 1028	A	1.87		.03														1.68								.19							
MOHIHI UPR CROSS 1083	A	2.71			.08				.08	.16	.31	.47						.08					.23	1.09								.21	
MOLOKA 1145	A	2.47	.42	.08					.35			.03	.07			.18		.03	.22	.11			.18	.30	.12					.13	.14	.11	
MOUNT MAHALEALE 1047	A	2.02							.49										.91														
NIU RIGOE 1035	A	1.42	1.76	.17					1.46	.22	.13	.50	.62			.80		.22	2.37	.20			1.50	.30	1.50	.40	.16			.72	.19	1.00	
N WAILUA OITCH 1051	A	10.72	.60	.55			.22		.02	.01		.75	.46	.34	.05	.05		T	2.32	.13	.24	.06		.72	2.40			T			.02	2.1	1.55
PH WAINIHA 1115	A	7.30	1.00	.32	.05	.14	.02	.24	.10		.07	.22	.21		.28			1.98	.22	.25	.06	.04	.58	1.17	.01			.01		.04	.37		
PRINCEVILLE RANCH 1117	A	.99							.13									.68							.21								
PUHI 1013	A	3.87	1.06	.07					.31	.03		.37	.14			.65			.23				.11	.28	.35	.07				.11	.03	.26	
RESERVOIR 6 1004	A	7.30	1.24					1.37			.26	.18			.59		.10	1.53					.64	.32	.40					.07		.40	
WAILANA 930	A	3.30	.41					.12			.22	.16			.14				.31	.13			.15	.23	1.25					.02		.16	
WAIKAWA MOUNTAIN 990	A	14.13									.03	.60	.62	.63	.35	.55	.05	.03	1.88	.11	.27	.55	.05	.50	.90	.20	.02	.19	.02	.11	.08	.80	
WAIKAWA LOWER 1054	A	10.80	.27	.35	1.15	.85		.10	.05	.10	.02	.85	.02	.38	.40	.28	.05	.23	2.99	.15	.94	.27	.11	.77	1.10	.71	.02			.23	.08	.80	
WAIKAWA UPPER 1052	A	13.40	.45	.09	2.15	.68	.07			.11	.02	.85	.01					.16						.34									
WAIKAWA 943	A	.51									.27	.08	.03	.22	.09		.25						.10	.40	.37	.03				.65		.08	
WAILUA KAI 1065	A	4.63	.65								.03	.22	.09			.25							.10	.40	.37	.03				.65		.08	
WAIKAWA 947	A	1.04	.01											.03				.53				T	T	.42									
WEST LAKE 931	A	3.61	.67	.02					.08		.01	.14	.24			.26		.01	.01	.03			.13	.24	1.51					.02	.03	.16	
ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	1.37							.06	.25	.03					.04			.27				.46	.18							.02	.03	
BERETANIA PUMPING STA	A	1.04	.07						.01		.04	.03	.03			.04			.11	.08			.57	.04									
CAMP 84 807	A	1.81							.13		.06	.31	.17	.10	.21	.01		.01	.03	.01	.04		.03	.40	.01	.10	.02		.02	.02	.11		
CHURCH COLLEGE LAIE	A	1.04	.09						.05		.01		.07	.01	.12				.05				.26	.17			.03			.01	.01	.01	
COCONUT ISLAND 840.1	A	.29									T					.21							.05	.01									
HELEMANO INTAKE 881	A	2.22	.43												.50				.28				.94							.06			
HONOLULU 725.2	A	.63							.04						.10								.43							.03			
HONOLULU OBSERV 702.2	A	.38													.04				.04				.07										
HONOLULU WBFC 703	R	.29						.01	T	T	.01	T	.01		.01		.11		.22		T	T	T	.04	.09	T	T	T	T	T	T	T	
HONOLULU SUBSTA 704	A	.31						T	.05		.02			.01			.10						.05				.02	.06			.05		.06
H 5 P & EXP STA 707	A	.68							.24		.08	.08		.04	.04	.344			.10	.10	T	.02		.21						.546			
KAHANA 883																																	

HAWAII
JULY 1968

[illegible]

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DAILY PRECIPITATION

Continued

HAWAII
JULY 1968

Station	Total	Day of Month																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
KAHUOLA 192.2	1.01				.10	.16							.03		.06	.27		.13	.08		.02				.01	.05		.02			.02		.16		
KAHUOLA AIRPORT 191	.92				.11	.55	T						T		.07		T	.12	.07			T													
KAPAPALA RANCH 36	3.89														.15			.04	.52																
KAPUHU LANDING 93.5	7.00					.66							.22																						
KAIKAWA 88.1	10.39				.07	.13				.21			.26	.08	.10	.04	2.03	2.42	.02	.42	.68		4.21		1.18	1.01	.20	.28	.77	.04	.20	.07		.11	
KAWAII LOWER 193	9.92					.69										2.30						4.80									2.13				
KEAAU 92	9.75			.03	.07						.02	.05	.24	.57	.14	1.52	1.80	.17	.85	.88	.27	.67	.39	.08	.58	.02	.15	.02	.02	.22	.23	.13	.63		
KEALAKUUA 26.2	7.09											.47	.02	.01				.04	.35	1.68	.39	.01	T	.29	.14	T				.08	.11	.01			
KEMENA 181.2	4.10																																		
KIJILAKAA A F 6	12.00																																	4.10	
KIPA 89.2	12.30			.02	.25				.05	.12	.15	.19	.21	.12	3.06	2.70	.67	.45	.56	.40	.44	.28	.36	1.01	.47	.21	.05		.07	.22	.01	.87			
KOHALA 179.1	4.08	.02							.07				.01																						
KOHALA MAULILI 176	3.58	.02							.28	.01	.05		.21		1.37		.07	.03	.03	.11			.05	.77	.02	.07				.22	.09	.18			
KOHALA MISSION 175.1	4.77				.07				.03	T					1.32	.83	.16	.06	.09	.13	.04	.02		1.02	.01	.07	T		.07	.06	.02	.40			
KOITANE LOWER 196	4.51												.30							2.52								1.25							
KONA AIRPORT 68.3	-				.40	.02	.01	T								T	T	.10		.05	T	T		T	.03					.85	.10	T	.10		
KONA VILLAGE 93.8	.17				.05																														
KUKAIKU 222	3.69												.01		2.88	.50				.02	.01	.03	.01	.09						.12		.04			
KUKUIMAELE HIC 199	1.98												.02		.40	.40		.04	.12	.01			.32	.07							.02				
KUKUIMAELE MILL 206	1.45				.10								.01			.70		.01	.09	.03			.07	.22	.18	.01					.07				
KU'ANI CAMP 79	8.21					.25							.24	.14		2.50	1.64																		
KULANI MAUKA 76	2.84	.10	.03	.40									.07	.08	.37		.71		.02																
KU'ANI SCHOOL SITE 78	4.69					.19																													
LA'IKAHU 68.2	13.29					3.87	.96	.34				.83						.68	2.04	.12	.70	.04	.47	.08	.29				.98	.65	.40	.28	.32		
MANUKA 2	5.99					.05			.65	T		.05				.15				2.04											2.47	.05	T		
MAUNA KEA BEACH 98	.22					.09		.02										.07	.04																
MAUNA LOA SLOPE 085	1.36															.28		.02	T																
MIDDLE HOLEVALOA 68.1	11.98					6.27						1.76						1.10	.44	.21	.07										1.70	.11			
MIDDLE PEN 147.1	4.00																																		
MOLAI 18	4.80																																	4.80	
MOUNTAIN VIEW 91	13.60			.02	.14	.02					.03	.11	.62	.37	.21	2.44	2.87	.10	.99	.59	.38	.89	.52	.10	.43	.26	.27	.33	.02	.26	.27	.13	1.34		
NAALEHU 14	2.99		T		.04						.14					1.58	.65	T	.41	.02															
NAPOOPOO 28	5.81	.26								2.92							.18																		
NAIULU FOREST 38.6	4.68			.18		.04					.03					2.64	.38	.06	.38			.70	.07							.31	.11		.16		
NIILILI 179	4.61								.12					.34		1.94		.20	.03	.04	.38										.07	.09	.46		
ODALA 223	5.57			.01								T	.01	.04		3.95	.42																		
OPHIHALE 2 24.1	3.44			.11	.36	.51	.01			.31	.03	.11	.45					.01	.06	.21	.11	T	.03	.03	.09	.03			.66	.01	.27		.02		
ORIMU LAND EST 91.5	8.30					.23							.80							4.67															
PAHUHAI 217	1.97															1.62	.07																		
PAUHILO 221	2.81															2.40	.26																		
PAHALA 21	5.21			.05	1.12	T	.01	.07			.13	.05				3.34	.30			.06	.02														
PAHOA 65	10.92			.04	.17	.02				.09		.03	.33	.12	1.28	1.50	.16	.76	.75			.95	1.00	.47	.12	.68	.11	.31	.09	.02	.21	.03	.44		
PAHOA 37	4.93																																		
PAPAIAKU 144.1	7.68			.05	.01				.20		.11	.28	.23	.02	2.00	1.27	.06	.63	.83	.28	.37	.08	.14	.22	.01	.23	.02		.01	.18	.09	.40			
PAPAIAKU MAUKA 140.1	12.27			.02	.08	.07			.17	.02	.05	.20	.31	.02	3.40	2.65	.07	.42	.64	.65	.48	.39	.13	.89	.04	.24	.27		.03	.27	.07	.69			
PEPEEKEO MAKAI 144	6.79	.01		.10	.10						.01	.35	.08	.20	2.30	.70	.16	.27	.36	.23		.59	.21	.31		.20			.01	.21	.12	.27			
PIIMUNUA 89	15.60																																		
POHAKULOA 107	1.24						.41																												
PUAKO 95.1	.08																					.71													
PUU KIME 120	3.58																		.03	.01	.03														
PUU LAU 102.1	2.19																																		
PUU LEHUA 73	4.10																																	2.19	
PUU MALL 113	1.83																																		
PUUKUHAI 167	2.02	.01							.31	.01	.07	.05	.14			.60	.01	.05	.02	.01			.05	.40	.02	.08	.01			.16	.01	.07			
PUU UU 82	7.01			.20	.10		.03				.07	.20	.19			1.95	1.55	.10	.38	.15	.45	.11	.05	.05	.04		.08		.08	.55	.05	.68			
PUU WAAWAA 94.1	1.67										.05	T					.84	.50																	
SAIDOLE ROAD 1 84	12.91					.70							1.11							9.10															
SOUTH POINT CORRAL 3	1.31						.23									.44	.28					.36													
UMUKO 118	1.99			.19									.01	.02	.55	.07															.03				
UPOLU POINT USCG 159.2	1.89								.02	.01			.11		.32	.49	.01	.06											.01		.03	.02			
WAIKAE SCD 88.2	12.37			.03	.23	.19			.11	.12	.13	.07			2.38	3.06	.11	.60	.84	.68	1.27	.15	.34	.54	.03	.04	.04		.20	.44	.07	.67			

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)							Relative humidity averages - percent				Number of days with precipitation										Percent of possible sunshine
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DAILY TEMPERATURES

HAWAII
JULY 1968

Station		Day of Month																																Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																		
KANAL OHULUHULU 1075	MAX MIN	75 55	74 53	72 50	72 50	72 56	72 50	74 55	75 52	79 50	75 50	76 60	74 59	74 58	75 54	75 60	78 54	73 53	78 53	77 58	75 59	74 60	73 59	68 59	73 63	65 62	74 60	80 52	78 59	74 63	77 62	74 64	74.7 56.5	
KILAUEA POINT 1133	MAX MIN	86 74	87 69	86 73	87 71	87 70	88 69	86 74	88 75	87 70	86 75	87 71	87 71	84 76	86 75	88 75	88 76	80 73	87 73	80 69	85 70	85 75	84 72	82 71	84 74	85 74	88 73	88 73	88 72	86 72	86 74	86 76	85.9 72.7	
LIHUE WB AP 1020.1	MAX MIN	83 70	83 68	83 66	84 66	83 70	84 66	84 70	84 69	84 75	84 71	84 74	84 71	85 75	83 75	84 75	84 75	83 71	85 71	85 75	85 75	85 75	84 72	82 71	84 73	85 74	85 73	84 74	85 69	84 73	85 73	85 75	84.0 72.4	
MAKAHUEA POINT 940.1	MAX MIN	85 72	87 74	87 73	86 72	88 72	86 73	87 73	87 74	87 70	87 74	86 76	86 73	86 75	86 74	86 75	85 74	87 72	83 72	87 75	87 76	87 75	86 75	87 72	88 74	88 75	89 72	89 75	90 72	88 74	88 77	86 77	86.8 74.1	
MAKA 1026	MAX MIN	91 65	90 66	88 67	88 66	88 69	89 71	91 71	92 71	90 71	88 67	91 72	90 70	91 69	92 68	92 69	89 71	88 71	88 67	88 70	90 71	88 68	90 71	91 69	86 71	86 71	91 70	91 70	90 70	92 68	92 71	89 72	89.7 69.4	
NIU RINGE 1035	MAX MIN	85 64	85 63	84 65	85 64	84 65	86 65	87 65	85 64	86 65	84 65	85 65	84 65	85 65	87 66	86 66	86 65	85 65	83 65	87 66	86 65	85 66	86 65	85 64	84 66	85 66	86 65	86 65	85 66	86 65	85 66	84 65	85.2 65.0	
MAIAHI LOWER 1054	MAX MIN	82 64	82 62	82 60	82 61	83 65	83 63	83 65	83 64	84 66	85 66	82 68	84 68	81 68	80 68	82 66	82 68	83 67	82 66	83 68	82 68	82 68	82 68	80 69	80 67	82 69	83 68	84 63	84 66	83 68	83 68	82 68	82 70	82.4 66.3
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	89 69	88 67	86 67	87 67	88 69	89 68	87 67	88 70	89 68	87 68	87 71	87 70	88 71	89 72	90 71	85 72	89 69	89 72	88 71	88 73	89 71	88 70	87 71	89 70	88 70	87 72	88 70	87 72	89 71	87 70	89 71	89 74	88.0 70.1
HONOLULU WRF 703	MAX MIN	89 74	88 71	87 72	88 70	92 72	91 72	87 71	91 73	89 74	89 74	88 76	89 76	89 73	90 75	90 76	86 74	86 74	90 73	89 74	88 75	88 76	88 75	88 73	90 75	89 73	90 76	90 75	89 75	90 76	91 76	91 76	89.0 73.9	
HONOLULU SUBSTA 704	MAX MIN	85 75	86 74	88 75	84 76	86 75	86 75	86 74	86 75	85 75	84 75	85 76	84 77	85 74	86 76	85 77	86 75	84 77	86 75	86 77	86 78	85 77	86 78	85 77	88 77	85 77	86 77	83 77	85 77	85 77	86 77	86 77	85.2 76.0	
KAHUKU 912	MAX MIN	84 73	85 68	85 68	85 67			87 71	87 76	85 75	85 75	85 76		85 68	86 76	85 75	86 75	85 75	86 75	85 76	85 76	85 76	85 76	85 76	85 76	85 76	85 76	85 76	85 76	85 76	85 76	85 76	85.2 76.0	
KANEHE MAUKA 781	MAX MIN	85 72	85 71	85 71	82 70	85 71	86 71	85 71	86 73	85 73	85 71	85 73	79 71	85 72	84 72	83 72	85 72	85 72	82 73	84 74	85 74	85 72	84 73	83 75	83 75	84 73	83 75	82 75	82 74	85 75	84 74	84 75	84 76	84.1 72.6
LUALUALEI 804	MAX MIN	87 74	88 70	86 70	85 63	87 72	87 73	85 65	85 75	85 75	88 75	87 77	87 77	82 77	86 75	88 77	89 74	89 73	88 72	89 75	89 78	88 70	88 78	85 74	85 75	88 75	88 74	87 74	87 77	87 76	87 77	86 78	86.3 74.0	
MAKAPOI POINT 724	MAX MIN	85 72	82 74	84 73	87 74	84 73	88 74	86 73	85 76	82 74	86 73	83 74	82 74	84 72	81 75	87 73	87 74	80 76	80 74	81 74	82 74	81 74	82 73	81 73	81 75	81 75	82 75	82 75	81 75	82 74	81 73	87 73	83.6 73.8	
OPEAULA 870	MAX MIN	82 67	87 64	86 63	89 62	88 66	90 66	90 64	87 66	88 66	86 66	81 66	81 68	88 68	83 69	86 69	86 68	78 69	84 67	87 68	84 68	84 68	84 68	81 68	83 68	79 68	82 68	84 68	87 68	85 68	83 68	84 68	84.6 67.0	
PRI WAHIAWA 820.2	MAX MIN	87 65	89 63	89 63	90 63	89 66	91 66	89 66	91 63	88 65	86 65	86 67	86 70	86 70	88 71	88 68	89 67	89 67	88 67	89 67	87 67	87 72	87 69	88 69	88 69	87 68	88 67	88 70	87 70	87 67	88 70	88 70	87.9 67.3	
MAIALUA 847	MAX MIN	88 69	88 62	89 63	87 64	86 66	91 66	89 64	87 68	90 65	88 66	87 66	89 67	85 68	87 69	89 69	92 68	85 68	89 68	90 68	87 68	89 68	87 68	87 68	87 68	90 68	90 68	92 68	89 68	88 69	88 64	88.4 66.7		
MAIKI 717.2	MAX MIN	80 73	88 69	89 73	90 68	89 70	90 70	91 69	90 72	90 71	88 73	89 70	87 70	87 74	89 75	88 76	89 75	85 72	88 76	88 72	88 75	88 76	88 75	88 74	88 75	87 75	87 73	87 71	87 75	87 76	89 75	86 75	87.8 73.2	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	87 72	86 69	85 69	85 69	82 70	84 70	84 70	84 72	84 72	86 73	84 74	83 69	82 68	83 68	83 74	86 72	86 74	83 69	84 70	83 70	86 70	84 70	82 71	82 72	85 70	84 71	87 69	84 69	84 72	83 75	81 74	84.1 71.0	
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	79 67	79 66	81 67	82 69	82 67	79 65	79 65	79 68	79 66	79 67	77 67	79 68	78 67	78 66	80 68	78 68	81 68	79 67	80 67	80 68	80 69	80 69	79 68	79 67	80 66	81 67	81 68	80 68	79 68	79 67	76 69	79.4 67.3	
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	65 44	67 47	68 51	66 47	66 45	67 48	67 45	67 50	67 43	66 43	67 48	66 46	63 51	65 52	65 48	72 53	69 52	66 45	67 47	66 51	67 48	67 51	68 49	60 54	67 52	68 47	68 49	70 52	68 46	66 47	66 53	67.0 48.5	
HALEAKALA SUMMIT 338.4	MAX MIN	58 42	59 41	59 42	59 45	60 42	60 45	60 43	60 41	55 45	56 38	52 38	55 43	54 42	60 43	54 45	58 50	61 49	58 48	59 45	55 41	55 42	58 40	58 39	53 43	57 43	54 45	57 42	55 42	59 42	55 40	49 39	56.9 42.7	
MAKA AIRPORT 355	MAX MIN	87 70	86 70	86 69	86 72	88 68	87 69	88 71	88 69	88 70	89 67	89 67	87 68	87 74	86 74	88 71	88 73	88 71	88 71	87 72	87 74	87 75	87 74	88 73	86 73	87 72	85 72	82 72	87 71	87 70	86 73	86 71	87.2 71.2	
KAANAPALI AIRPORT	MAX MIN	87 69	86 67	86 69	88 66	86 69	88 66	89 71	87 73	82 72	89 71	87 72	88 74	89 73	88 75	90 72	88 73	89 73	89 74	89 72	89 75	89 74	89 72	89 74	87 65	88 72	88 71	88 72	85 71	88 73	88 71	88 76	88.0 71.8	
KAHULUI WB AP 398	MAX MIN	88 67	90 62	87 65	87 66	86 64	86 69	87 65	91 65	90 69	88 69	89 71	88 71	88 72	88 70	89 73	92 68	89 72	89 67	89 65	89 73	89 70	89 73	88 70	90 70	91 69	90 68	90 68	89 73	88 71	86 75	89.1 68.9		
KAHILUA 446	MAX MIN	80 68	80 65	80 65	81 65	82 68	82 66	82 67	82 68	81 68	82 68	80 68	80 69	80 68	79 67	81 70	81 70	81 70	81 70	82 70	80 69	80 69	80 69	80 68	80 69	80 69	80 69	80 69	81 69	82 68	82 68	80.7 68.1		
KEAWAKAPU BEACH 260.2	MAX MIN	89 66	89 66	89 67	90 66	88 66	88 66	88 68	88 65	88 65	87 66	87 68	87 68	91 66	92 67	90 68	93 67	91 67	89 67	92 67	93 68	92 68	92 68	91 67	92 67	92 67	92 67	89 67	92 67	88 67	91 68	93 67	90.4 67.9	
KULA SAPATRIUM 267	MAX MIN	75 58	76 59	76 60	75 59	74 60	73 58	72 58	71 57	71 58	73 58	71 59	74 59	74 58	75 59	74 59	76 59	73 59	73 60	73 63	74 60	74 63	74 60	74 59	74 59	77 57	77 58	75 61	77 60	76 61	76 58	79 60	74.7 59.1	
LAHAILA 361	MAX MIN	87 70	86 68	85 70	88 72	88 71	88 70	87 70	87 73	87 69	88 70	87 71	86 70	89 71	88 71	88 71	88 73																	

Continued

DAILY TEMPERATURES

HAWAII
JULY 1968

Station		Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																		
ISLAND OF HAWAII																																		
HAINA 214	MAX MIN	84 66	84 65	85 68	85 66	85 65	84 65	84 65	84 66	85 67	85 67	85 68	84 67	84 68	83 69	80 66	84 68	83 69	84 67	85 67	83 69	85 67	83 70	84 67	85 68	84 67	84 66	85 67	83 69	83 66	84 66	85 67	84.0 67.0	
HAWAII VOLCNS NP HO 54	MAX MIN	79 55	72 57	72 58	72 57	80 56	72 54	76 56	72 57	71 55	72 55	71 55	71 54	72 58	66 58	72 59	64 59	69 57	65 56	67 56	70 56	67 56	65 55	73 56	71 59	73 52	74 53	68 56	74 55	71 54	70 56	71.1 56.0		
HILD WB AIRPORT 87	MAX MIN	85 68	85 69	87 70	86 70	87 67	87 67	87 68	88 68	87 68	86 68	87 68	86 67	85 68	80 72	84 73	82 71	84 70	83 67	83 67	85 69	83 67	83 68	85 68	86 68	86 67	83 67	83 68	85 68	84 69	84 68	85 68	84.8 68.8	
KAINALIU 73.2	MAX MIN	79 63	82 62	82 65	80 64	78 67	77 64	78 63	77 65	77 64	79 63	80 65	78 64	79 64	82 65	82 67	79 65	80 65	79 65	81 65	80 66	78 65	79 66	81 65	81 66	82 65	83 65	82 65	80 65	80 67	78 64	82 67	79.8 65.0	
KAMUELA 192.2	MAX MIN	76 60	77 60	83 59	83 58	79 59	78 58	75 60	75 56	76 57	75 58	75 60	74 60	73 59	75 60	73 61	73 61	77 60	75 60	73 60	75 60	73 60	73 62	73 62	76 62	74 57	80 55	80 58	75 60	74 59	74 56	76 58	75.9 59.2	
KAMUELA AIRPORT 191	MAX MIN	76 52	77 54	81 54	79 55	76 54	80 60	76 57	76 54	77 54	74 53	76 53	75 54	77 58	74 60	75 55	74 59	75 54	75 54	76 55	75 59	75 54	78 54	74 54	79 54	80 58	79 50	74 58	73 60	75 60	79 60	76.3 55.7		
KEAAU 92	MAX MIN	85 66	84 67	85 68	88 65	88 65	88 65	88 65	88 65	87 65	86 65	87 65	87 67	85 66	85 66	85 66	83 70	83 70	84 67	85 67	85 67	85 67	84 68	85 68	86 69	86 69	86 67	87 68	87 67	87 68	85 68	83 68	85.7 66.8	
KEALAKEKUA 26.2	MAX MIN	78 61	82 62	83 65	80 64	81 66	78 65	79 62	80 65	79 63	80 62	80 64	78 65	81 62	83 64	83 66	78 65	80 66	80 64	81 65	81 65	80 66	77 64	81 66	81 66	82 65	82 65	80 65	80 63	80 63	82 63	80.4 64.3		
KOHALA MISSION 175.1	MAX MIN	82 69	82 67	83 68	83 69	85 68	84 67		83 67	83 70	84 68	84 68	83 68	82 68	82 71	77 71	81 71	83 70	82 67	83 67	83 67	81 68	82 68	82 68	82 71	82 70	82 69	82 70	83 71	81 70	82 68	80 71	82.3 69.6	
KONA AIRPORT 68.3	MAX MIN	85 67	85 67	84 67	86 67	85 67	84 67	84 68	85 68	84 68	84 68	84 67	84 67	84 68	85 69	85 67	84 68	84 68	86 67	85 68	84 68	85 68	84 68	86 68			85 68		85 67	84 68	86 69	84.8 67.6		
KULANI CAMP 79	MAX MIN	69 47	68 50	70 51	68 48	67 46		65 44	65 52	65 45	68 47	68 52	68 51	66 49	66 47		65 48	63 44		64 46	64 47	64 46	67 46	67 48	69 48	65 49	68 51	68 49	70 50	65 48	69 51	64 45	70 48	66.8 48.1
MAUNA KEA REACH 98	MAX MIN	86 71	87 71	88 73	85 73	87 72	86 71	86 74	86 74	88 74	88 73	87 72	87 72	93 73	87 71	88 75	88 74	87 75	88 72	87 74	88 76	88 75	89 74	89 74	88 73	88 73	87 73	87 73	93 75	95 72	90 75	88.5 73.6		
MAUNA LOA SLOPE 085	MAX MIN	54 36	53 36	54 38	53 36	53 37	57 40	60 42	61 43	58 40	56 38	61 40	60 44	60 44	52 44	55 39	50 38	57 36	55 36	60 38	56 39	56 38	56 38	58 35	55 40	54 38	55 39	55 38	56 38	61 38	58 38	52 38	56.2 38.9	
MOUNTAIN VIEW 91	MAX MIN	82 61	82 60	83 65	79 64	78 60	84 59	83 60	84 60	82 60	82 59	81 62	81 62	81 61	80 62	72 66	79 67	73 66	78 63	75 63	78 64	81 64	77 64	78 65	80 65	80 65	81 61	81 61	81 61	78 63	81 61	79.9 62.4		
NAALEHU 14	MAX MIN	82 66	81 71	83 71	83 71	84 68	84 68	84 68	82 69	82 69	83 68	83 68	84 71	84 71	83 70	83 70	83 68	77 68	81 68	80 69	80 69	82 68	82 70	83 72	84 72	84 70	83 72	83 70	85 68	85 68	80 71	85 71	82.7 69.7	
OOKALA 223	MAX MIN	85 70	83 68	83 69	83 70	83 72	83 68	84 71	84 72	82 70	83 71	84 68	84 70	83 70	83 71	80 71	82 70	80 73	82 70	82 71	83 71	82 71	83 73	83 70	83 72	83 72	84 72	84 70	83 68	83 72	83 70	82.9 70.4		
OPIHIHALE 2 24.1	MAX MIN	82 62	84 63	77 65	83 66	80 67	78 62	77 64	82 61	79 61	81 62	76 62	78 61	84 62	85 66	84 66	80 64	83 64	79 64	82 64	80 62	82 64	82 63	86 64	86 65	80 65	82 65	84 65	83 65	83 63	82 65	84 64	81.4 63.6	
PAHALA 21	MAX MIN	82 63	82 64	83 68	82 67	77 63	83 66	81 65	81 65	81 63	82 63	81 64	83 67	84 64	84 62	77 68	81 67	77 64	79 64	81 65	82 64	82 65	81 66	84 68	84 68	85 65	84 65	83 65	81 66	84 65	82 66	85 66	81.9 65.1	
UPOLU POINT USCG 159.2	MAX MIN	86 70	86 70	87 73	89 73	90 71	90 70	90 71	87 74	87 70	87 71	87 72	87 72	87 71	87 72	87 72	87 74	87 72	87 72	86 72	85 72	86 73	86 72	86 71	85 73	87 72	86 72	87 73	84 72	86 71	84 75	86.6 72.1		

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * * ISLAND OF KAUAI																																		
LIHUE WB AP 1020.1		EVAP	.33	.30	.30	.30	.24	.34	.30	.32	.32	.42	.39	.39	.40	.35	.28	.42	.30	.15	.42	.30	.34	.36	.37	.25	.30	.39	.25	.38	.28	.33	.32	10.14
		WIND	121	77	77	82	84	90	91	91	120	143	197	184	182	205	158	133	142	135	171	200	194	208	221	181	131	106	63	145	194	194	215	4555
		MAX	88	90	92	91	88	92	91	90	92	91	89	90	88	86	85	92	93	87	90	90	90	88	86	89	89	90	93	92	91	88	88	89.5
		MIN	69	67	65	65	66	68	68	69	69	69	68	69	69	69	69	70	70	69	69	69	69	70	68	69	70	68	71	69	69	69	70	68.6
* * * ISLAND OF OAHU																																		
HONOLULU OBSERV 702.2		EVAP	.29	.30	.31	.28	.23	.20	.27	.32	.27	.30	.29	.37	.34	.36	.31	.34	.28	.10	.30	.30	.36	.39	.35	.25	.30	.23	.25	.28	.32	.34	.32	9.15
		WIND	21	25	26	22	19	20	21	22	27	33	42	47	52	43	35	34	32	22	30	40	49	60	50	38	27	24	23	26	47	50	43	1050
		MAX	99	98	99	99	96	91	96	100	95	95	95	97	95	97	97	98	96	85	95	95	97	96	95	95	95	95	95	95	96	95	95	95.7
		MIN	72	70	71	72	72	71	72	74	70	70	72	71	72	73	72	72	74	71	71	72	71	71	72	72	72	73	72	72	71	71	74	71.8
* * * ISLAND OF HAWAII																																		
HILD WB AIRPORT 87		EVAP	.28	.22	.24	.22	.31	.29	.33	.34	.27	.16	.21	.22	.13	-	.22	.04	.15	.09	.12	.22	.20	.15	.18	.23	.14	-	.23	.11	.20	.13	.10	6.138
		WIND	38	26	52	85	58	45	46	66	58	43	41	31	77	33	31	31	42	36	45	42	35	29	49	49	46	48	33	32	56	50	45	1398
		MAX	91	91	92	88	92	93	94	92	90	90	89	92	88	81	86	81	89	89	89	92	90	90	90	89	93	91	84	84	88	84	89.0	
		MIN	66	69	72	71	66	64	66	69	66	65	68	68	69	68	72	71	71	69	68	70	70	69	70	69	71	63	68	67	67	68	68	68.3

See Reference Notes Following Station Index

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STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER
								TEMP	PRECIP	SPECIAL	
ISLAND OF HAWAII											
MOULUA 18	A 6407	03 KAU		2 19 11	155 30	800	MG				HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	A 6552	02 PUNA		2 19 33	155 07	1530	6A 6A				PUNA SUGAR CO
NAALEHU 14	A 6588	03 KAU		19 04	145 35	673	8A 8A				HUTCHINSON SUGAR CO
NAPOOPOO 28	A 6697	04 S KONA		19 28	155 55	304	7A				KONA EXPERIMENT STA
NAULU FOREST 38.6	A 6731	02 PUNA		19 19	155 08	1400	VAR				HAWAII VOLCANOES NAT PK
NIULII 179	A 6806	01 N KOHALA		20 14	155 45	75	6A				KOHALA SUGAR CO
OKALA 223	A 7131	02 N HILO		2 20 21	155 17	430	7A				LAUPAHOEHO SUGAR CO
OPIHIHALE 2 24.1	A 7164	04 S KONA		19 16	155 53	1270	7A				MISS C. LEONARD
ORCHID LAND EST 91.5	A 7185	02 PUNA		19 34	145 00	445	VAR				BOARD OF WATER SUPPLY
PAALUHAU 217	A 7204	01 HAWAIIA		2 20 05	155 26	414	7A				PAALUHAU SUGAR CO
PAALUHAU 221	A 7312	01 HAWAIIA		2 20 03	155 22	870	7A				HAWAIIA MILL CO
PAHALA 21	A 7421	03 KAU		19 12	145 29	870	6A 6A				HAWAIIAN AGRI CO
PAHOA 65	A 7457	02 PUNA		20 30	154 47	670	6A				PUNA SUGAR COMPANY
PAKAO 37	A 7644	03 KAU		19 22	155 24	5000	MG				HAWAIIAN RANCH CO. INC.
PAPAIOU 144.1	A 7711	02 S HILO		19 47	155 06	200	7A				MAUNA KEA SUGAR CO.
PAPAIOU MAUKA 140.1	A 7721	02 S HILO		19 47	145 08	1270	7A				MAUNA KEA SUGAR CO.
PEPEKEO MAKAU 144	A 8009	02 S HILO		19 51	154 05	100	7A				PIPERICO SUGAR CO.
PIMOHUA 89	A 8051	02 S HILO		19 44	155 10	1730	MG				STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02 HAWAIIA		19 45	155 32	6511	VAR				STATE DIVISION OF PARKS
PUNAKU 95.1	A 8186	04 KOHALA		19 59	155 50	4	6A				ERWIN H. RAPP

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER
								TEMP	PRECIP	SPECIAL	
ISLAND OF HAWAII											
PUU KIME 120	A 8393	01 HAWAIIA		2 19 54	155 24	7750	MG				KUAIKAI RANCH CO
PUU LAU 102.1	A 8452	03 HAWAIIA		2 19 50	155 36	7440	MG				STATE DIV OF FISH-GAME
PUU LEPIA 73	A 8460	04 N KONA		19 34	155 49	4880	MG				GREENWELL RANCH
PUU MALI 113	A 8515	03 HAWAIIA		2 19 55	155 26	6760	MG				KUAIKAI RANCH CO
PUUOKUMAU 167	A 8548	01 N KOHALA		2 20 12	155 50	1800	7A				KOHALA DITCH CO LTD
PUU OO 82	A 8550	02 S HILO		19 44	155 23	6340	6A				W. H. SHIMMAN, LTD
PUU WAHAA 94.1	A 8555	05 N KONA		19 47	155 51	2520	7A				DILLINGHAM RANCH INC
SADDLE POAD 1 84	A 8590	02 S HILO		19 42	155 12	2340	W4				BOARD OF WTR SUPPLY
SOUTH POINT COPPAL 3	A 8678	03 KAU		19 47	155 41	400	W1				HUTCHINSON SUGAR CO
S. POINT TRACKING STA	A 8679	03 KAU		19 47	155 41	305					FEDERAL ELECTRIC CORP
UMIKOA 118	A 8780	01 HAWAIIA		19 59	155 23	3420	7A				KUAIKAI RANCH CO
UPOLU POINT USCG 159.2	A 8830	01 N KOHALA		2 20 15	155 53	61	8A 8A				U. S. COAST GUARD
WAIKAE SCD 86.2	A 9025	02 S HILO		2 19 40	155 08	1050	7A				SHINICHI KANESHIMO
WAIKANAOUA 178.6	A 9350	01 N KOHALA		2 20 08	155 47	3830					KANSA RANCH

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

UNLESS OTHERWISE INDICATED, DIMENSIONAL UNITS USED IN THIS BULLETIN ARE: TEMPERATURE IN °F., PRECIPITATION AND EVAPORATION IN INCHES, AND WIND VELOCITY IN MILES PER HOUR. IN "SUPPLEMENTAL DATA" TABLE DIRECTIONS ENTERED IN FIGURES ARE TERMS OF DEGREES. RESULTANT WIND IS THE VECTOR SUM OF WIND DIRECTIONS AND SPEEDS DIVIDED BY THE NUMBER OF OBSERVATIONS.

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation", "Daily Temperature", "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. "Max and Min in Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELATED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

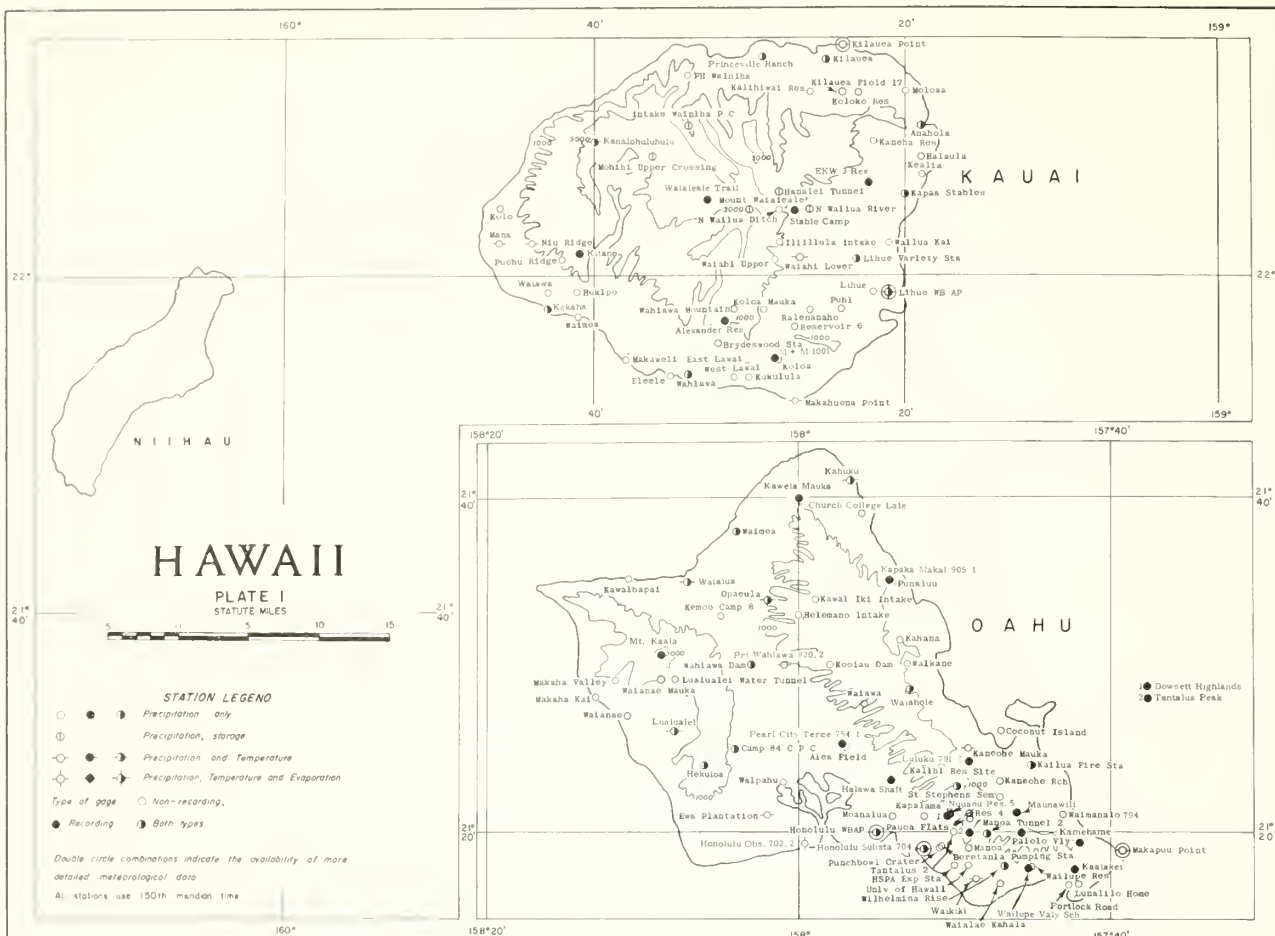
- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletins they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly, usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- W Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

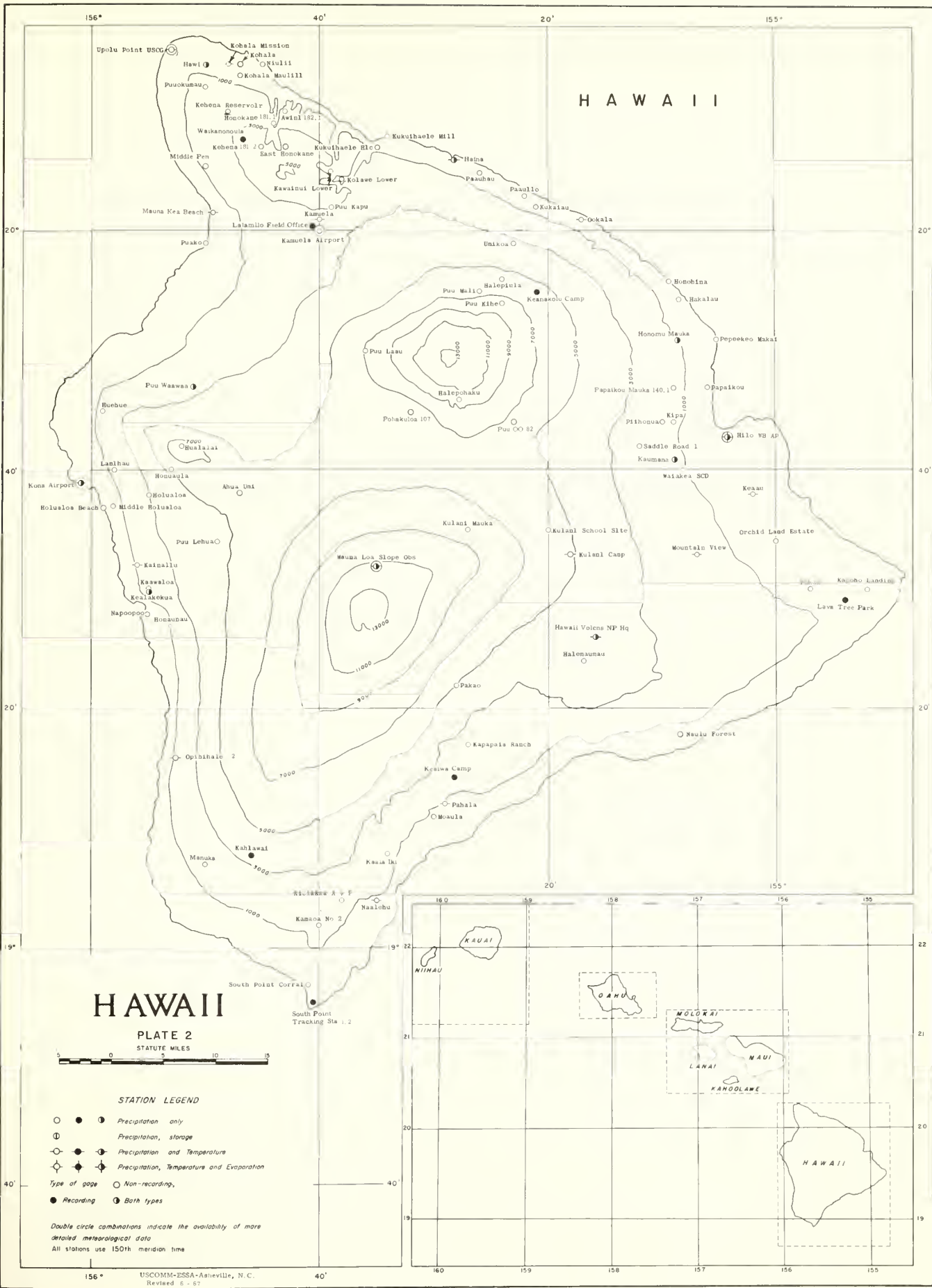
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications: MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in this publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.







CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE

C. R. SMITH, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

AUGUST 1968

Volume 64 No. 8

CLIMATOLOGICAL DATA
CLEMSON UNIVERSITY LIBRARY
SCI., TECH., & AGR. DIV.

Station		Temperature										Precipitation																
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow Sleet			No. of Days						
											Max. Min.								Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											40° or Above	32° or Below	32° or Below	64° or Below														
* * * ISLAND OF KAUAI																												
ANAHOLA 1111		A	75.6	59.0	67.3		79 29	51 3			0 0 0 0	1.59	- 1.30	.48	2	.0	0					0	0	0	0			
KANALOHULU 1075												1.69		.75	18	.0	0					3	1	0	0			
KAPAA STABLES 1104		A										1.75		.0	0							0	0	0	0			
KILAUEA FIELDO 17 1135		A										3.69	- 4.00	.0	0										0			
KILAUEA POINT 1133			87.5	74.1	80.8		90 31+	70 16			2 0 0 0	3.08		.67	3	.0	0					11	1	0	0			
KOLOA 936		R										3.50	- 3.02	.68	1	.0	0						2	0	0			
LIHUE W8 AP 1020.1		A	84.6	73.4	79.0	.6	86 23	67 4			0 0 0 0	.70	- 1.76	.17	20	.0	0					1	0	0	0			
MANA 1026			89.9	68.6	79.3	1.0	92 16+	66 6			21 0 0 0	.22	- .77	.17	21	.0	0					1	0	0	0			
N WAILUA DITCH 1051		A										11.94		2.30	1	.0	0											
PH WAINIHA 1115												4.52	- 6.13	.56	22	.0	0					18	3	0	0			
PUEHU RIDGE 1040												.49		.46	2	.0	0					1	0	0	0			
WAHIAWA 930		A										.52	- 2.00	.28	2	.0	0					1	0	0	0			
WAIAHI LOWER 1054			82.8	66.9	74.9		87 12	65 24+			0 0 0 0	7.39		.98	2	.0	0					19	0	0	0			
WAIMEA 947												.22	- .82	.22	2	.0	0					1	0	0	0			
ISLAND					76.3							2.95				.0												
* * * ISLAND OF OAHU																												
HONOLULU OBSERV 702.2		R	90.3	75.4	82.9	3.5	92 20+	69 16			25 0 0 0	.10	- .79	.07	31	.0	0					0	0	0	0			
HONOLULU WBFC 703												.99	- 1.67			.0	0					0	0	0	0			
KAHUKU 912		A	86.0M	76.0M	81.0M	2.7	88 20+				0 0 0 0	.99	- 1.67			.0	0											
KANEHE MAUKA 781			84.5	73.6	79.1	2.0	87 19+	70 17+			0 0 0 0	1.74	- 2.55	.52	1	.0	0					6	1	0	0			
KODIAU OAM 833												6.15	- 2.38	1.26	27	.0	0					15	0	2	0			
LUALUALEI 804			87.6	76.2	81.9		90 31	69 16			1 0 0 0	.19		.17	22	.0	0					1	0	0	0			
MAKAPUU POINT 724			84.0	74.7	79.4		89 18	73 26			0 0 0 0	.04	- .98	.04	26	.0	0					0	0	0	0			
NUUANU RES 4 783												1.89	- 8.70			.0	0											
PAEULA 870		A	84.8M	67.8M	76.3M	3.3	91 18	61 18			1 0 0 0	1.75	- 2.16			.0	0											
PALOLO VALLEY 718												2.44	- 9.30	.68	4	.0	0					9	1	0	0			
PRI WAHIAWA 820.2		A	88.1	68.2	73.2		91 19+	61 16			8 0 0 0	.24				.0	0								0			
PUNALUU 884		A										2.01				.0	0								0			
WAHIAWA OAM 863		A										.40				.0	0								0			
WAIAHOLE 837		A										3.93	- 7.90			.0	0								0			
WAIALUA 847		A	89.1	67.7	78.4	1.7	92 17	61 16			13 0 0 0	.09	- 1.29	.05	5	.0	0								0			
WAIKIKI 717.2			88.2	74.7	81.5		92 19+	67 16			2 0 0 0	.13		.05	4	.0	0								0			
WAIPAHU 750		A										.12	- 1.11			.0	0								0			
ISLAND					79.9							1.31				.0												
* * * ISLAND OF MOLOKAI																												
KUALAPUU 534		A										.72	- .50			.0	0								0			
MAPULEHU 542												1.72	- 1.18	.41	3	.0	0					7	0	0	0			
MAUNALOHA 511		A										.81	- .39			.0	0								0			
MOLOKAI AP 524			84.9	72.5	78.7		88 19	70 29+			0 0 0 0	.30		.25	4	.0	0					1	0	0	0			
ISLAND					78.7							.89				.0												
* * * ISLAND OF LANAI																												
LANAI CITY 672		A	80.0	67.3	73.7	1.8	83 31+	63 25			0 0 0 0	1.63	- .15	.65	19	.0	0					4	1	0	0			
ISLAND					73.7							1.63				.0												
* * * ISLAND OF MAUI																												
HALEAKALA 8 E S 434		A										1.39	- 3.29	.63	4	.0	0					4	1	0	0			
HALEAKALA RS 338			67.2	47.4	57.3		71 28+	42 26			0 0 0 0	.52		.14	4	.0	0					2	0	0	0			
HANA AIRPORT 355			87.1	71.7	79.4		89 29+	67 16			0 0 0 0	3.94		.82	29	.0	0					13	2	0	0			
HONOKOHUA 493		A										1.37	- 1.21			.0	0								0			
KAANAPALI AIRPORT			88.4	71.4	79.9		90 24	66 5			1 0 0 0	.03		.02	29	.0	0					0	0	0	0			
KAHULUI W8 AP 398		R	89.9	71.6	80.8	1.8	94 30+	66 17+			18 0 0 0	.26	- .09	.17	31	.0	0					1	0	0	0			
KAILUA 446			82.0	68.2	75.1	1.9	84 4	66 19+			0 0 0 0	6.26	- 5.05	.68	10	.0	0					21	3	0	0			
KEANAE 346		A										10.80	- 10.95			.0	0											
KIPAHULU 258												5.23	- 3.23	.81	29	.0	0					15	4	0	0			
KULA SANATORIUM 267			75.6	58.2	66.9	.2	78 24+	56 28+			0 0 0 0	3.34	1.05	2.20	19	.0	0					4	1	1	0			
LAHAINA 361			88.7	71.5	80.1		92 25	70 31+			2 0 0 0	.02	- .40	.02	29	.0	0					0	0	0	0			
PAIA 406												.58	- 1.34	.12	29	.0	0					3	0	0	0			
WAILUKU 392			87.9	74.1	81.0	3.0	90 31+	72 17+			2 0 0 0	.58	- .28	.35	4	.0	0					2	0	0	0			
ISLAND					75.1							2.64				.0												
* * * ISLAND OF HAWAII																												
HAINE 214			84.7	66.5	75.6	1.1	86 31+	64 16+			0 0 0 0	3.09	- 1.55	1.08	14	.0	0					7	1	1	0			
HAWAII VOLCNS NP HQ 54		R	71.9	55.8	63.9	.3	81 22	51 15			0 0 0 0	4.74	- 2.89	1.29	18	.0	0					12	0	1	0			
HILO W8 AIRPORT 87			84.1	68.9	75.5	.7	86 6+	67 28+			0 0 0 0	3.62	- 1.83	2.06	31	.0	0					19	0	1	0			
HUEHUE 93.1		A										6.26	3.54			.0	0											
KAINALIU 73.2			81.3	66.2	73.8		85 1	63 20			0 0 0 0	7.16	- .53	2.25	22	.0	0					12	0	2	0			
KAMUELA AIRPORT 191			77.8M	56.6M	67.2M		81 18+	51 29+			0 0 0 0	T		T	31+	.0	0					0	0	0	0			

CLIMATOLOGICAL DATA

HAWAII
AUGUST 1968

Continued

Station	Temperature											Precipitation										
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest Date	Lowest Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
								Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More	
								50° or Above	32° or Below	32° or Above	50° or Below											
KEAAU 92	85.1	67.3	76.2	1.1	87	5+	65	31+	0	0	0	0	7.37	- 4.38	.91	31	.0	0	20	5	0	
KEALAKEKUA 26.2	81.0	66.5	73.8		84	19	65	28+	0	0	0	0	5.83		1.95	22	.0	0	11	6	1	
KONA AIRPORT 68.3	86.5M	68.5M	77.5M		89	18	68	30+	0	0	0	0	2.06		.90	31	.0	0	4	2	0	
KUKUIHAELE HIC 199									2.65	- 3.32	.51	14			.0	0	.0	0	9	1	0	
KULANI CAMP 79	M	M	M						3.97		.65	5			.0	0	.0	0	1	0	0	
MAUNA KEA BEACH 98	88.7	74.2	81.5		93	26	70	4	8	0	0	0	.74		.52	19	.0	0	3	1	0	
PAHALA 21	83.5	65.5	74.5	.5	86	14+	63	29	0	0	0	0	.51	- 2.55	.26	31	.0	0	2	0	0	
POHAKULOA 107									.50						.0	0	.0	0	0	0	0	
PUAKO 95.1									.12		.05	13			.0	0	.0	0	0	0	0	
PUU WAAWAA 94.1									2.58	.45	1.75	19			.0	0	.0	0	2	1	0	
UMIKOA 118									1.43	- 3.63	.35	14+			.0	0	.0	0	0	0	0	
WAIKAE SCD 88.2									11.78		1.36	14			.0	0	.0	0	20	10	2	
ISLAND			74.1								3.91				.0							

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 94° ON THE 31+ AT 2 STATIONS

LOWEST TEMPERATURE: 35° ON THE 20+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 15.52 INCHES AT HONOMU MAUKA 138, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 10 STATIONS

GREATEST ONE-DAY PRECIPITATION: 2.92 INCHES ON THE 22D AT KAAWALOA 29, HAWAII

See Reference Notes Following Station Index

HAWAII - AUGUST 1968

SPECIAL WEATHER SUMMARY

The month was unusually warm and dry almost everywhere, with many areas reporting their lowest rainfall and highest temperatures for any August.

The prolonged dry spell, which has intermittently affected virtually every part of the State since early in the year, became particularly widespread during the month. Out of several hundred reporting stations, fewer than 10 exceeded their average rainfall for August. At all the others rainfall was below normal for the month. In fact, 60 percent of the rain gages on Kauai and Maui, and more than 90 percent of those on Oahu, recorded less than half their August average rainfall.

In the Honolulu area and elsewhere on eastern Oahu, rainfall was below normal for the fourth consecutive month, as it was also in windward east Maui and the Kohala section of Hawaii Island. Some places, like Olowalu Gulch in southwest Maui and Puehu Ridge in western Kauai, had their sixth successive month of sub-normal rainfall.

The dry spell was coupled with unusually warm

weather. A number of localities recorded their highest August temperatures or average daily maximums of record. At Honolulu Airport the daily maximum reached 90° or over on 12 days in July and on 25 days in August. Sixteen new daily highs were established in each month. (But a possible connection between this outbreak of record temperatures and a change in the type of thermometer is being looked into.) Kahului, Maui, reported 94° on 2 days in August, the highest since the record 95° reading in October 1957.

Despite the extended dry, warm weather, only scattered light crop damage was being reported. Irrigation, where available, was being heavily used, but no serious water shortages were evident.

Several of the tropical disturbances that formed off the Mexican coast during August drifted toward Hawaii. On the afternoon of the 29th, satellite photos showed a tropical depression about 400 miles south of Honolulu, but it moved harmlessly northwestward.

Stations with Less Rain in August 1968 than in any Previous August

(40 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least August Total	August 1968
OAHU			
Honolulu Substation	64	0.16 inches	0.15 inches
Manoa Tunnel #2	40	5.34	4.04
Nuuanu Reservoir #4	63	4.16	1.89
Palolo Valley	40	5.00	2.44
Pauoa Flats	40	6.48	5.72
Waianae Mauka	62	1.15	0.41
Waimanalo	69	0.38	0.20
HAWAII			
Kamuela	77	0.46	0.25

H A W A I I - A U G U S T 1 9 6 8

SPECIAL WEATHER SUMMARY - CONTINUED

Stations which Recorded their Highest August Temperature
of Record in August 1968

(10 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Highest August Temperature	Highest in August 1968
KAUAI			
Waiahi Lower	13	86 degrees	87 degrees
OAHU			
Makapuu Point	17	86	89 *
MAUI			
Hana Airport	17	88	89
Kahului WBAS	14	92	94
HAWAII			
Hawaii Volcanoes National Park Hq.	54	80	81
Opihiahale 2	10	85	86

* -- Tied for highest in any month.

Stations which Recorded their Highest August Average Maximum
Temperature of Record in August 1968

(10 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Highest August Average Maximum	Average Maximum in August 1968
KAUAI			
Kilauea Point	16	85.9 degrees	87.5 degrees**
OAHU			
Honolulu Substation	63	84.6	85.2 **
Makupuu Point	17	82.0	84.0 **
Opaehala	63	84.3	84.8
MAUI			
Hana Airport	17	85.4	87.0 **
Kahului WBAS	14	87.8	89.9
Wailuku	60	87.7	87.8
HAWAII			
Kona Airport	19	86.3	86.4 *
Naalehu	17	83.7	84.0 **

* -- Tied for highest in any month.

** -- Highest in any month.

Saul Price
Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811Russell Dorr
Acting State Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

HAWAII
AUGUST 1968

See reference notes following Station Index.

DAILY PRECIPITATION

HAWAII
AUGUST 1968

Continued

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND F 70.0K41																																	
KALAPAPA 563	2.59	*	.06	1.45																										.49	.27	.19	.13
KALAPAPA 536	.00																																
KALAPAPA 551	.53					.50	.53																							.14	.02	.04	
KALAPAPA 534	.72										.17	.22						.05	.28		.05				.07				.02	.10		.27	
KALAPAPA 547	1.72																																
KALAPAPA 511	.81			.26														*	.47	*	.03										.05		
KALAPAPA 524	.30				.25	T							.03								*	*	*	*	*	*	*		T		.02	.03	
KALAPAPA 542.1	2.63				1.01		.10			.07			.29					.09		*	*	*	*	*	*	*	*		*	.27	.21	.25	
KALAPAPA 540	2.02					1.63																					.10						
ISLAND 7F LANAI																																	
KALAPAPA 690	.28	.04	*	*			*	.20									*	*	*	*	*	*	.02	*	*	*	*	*	*		.02		
KALAPAPA 688	.54	.09			.05				.11				.05				*	*	*	*	*	*	.06	*	*	*	*	*	*				
KALAPAPA 679	1.03	.08	.01		.29	.37	.01				.04		.02						.65	.15			.01						T				
KALAPAPA 684	2.02	.14	*	*				.91	*	*	*	*	*	*	*	.10			*	*	*	*	.40	*	*	*	*	*	*	*	.44	*	.03
KALAPAPA 694	.15																		*	*	*	*	*	*	*	*	*	*	*	*	*	.15	
KALAPAPA 676	.73															.15			*	*	*	*	*	*	.58	*	*	*	*	*	*	*	
KALAPAPA 685	.42					.08	*	*	*	*			.04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.07	*	*	*	*	
ISLAND 7F MAUI																																	
KALAPAPA 252	.45					.45																											
KALAPAPA 332	1.39			.03	.63						.09		.11	.12	.05										.01	.18	.03	.02	.02	.08		.02	
KALAPAPA 338	.47	.13	*		.34																												
KALAPAPA 338.4	.52			.01	.14	.04																									.02	.09	.08
KALAPAPA 338.4	.39		.04	.14	.04	.03	.01																								.01	T	.10
KALAPAPA 423	.97					.24					.05		.18	.05					*	.30									.02	.04	.01	*	
KALAPAPA 445	1.88	.20		.12	.07			.08	.02	.02	.11	.08	.37	.14						.03	.07	.03	.03	.12	.05	.15	.04	.07	.12	.04	.09	.27	
KALAPAPA 354	1.91	.16	.06	T	.15	.07		.05	.11	.04	.02	.05	.07	.02						.10	.10	.10	.02	.02	T	.09	T	T	T	.82	.17	.61	
KALAPAPA 355	3.94	.21	T		.32	.23	T	.20	.06	.07	.09	.20	.17	.20	T					T	T	.09	.03	.82	.21	.19	.28		.03	.12	.75		
KALAPAPA 281	6.20	.02	.12	.06	.21	1.82	.09	.22	.27	.09	.27	.06	.20	.01	.24				T	.19	T	.09	.03	.82	.21	.19	.28						
KALAPAPA 259.5	.26		.10	*	*	*		.07	*	*	*	*	*	*	*	*	*	*	*		.09	*	*	*	*	*	*	*	*	*	*	4.30	*
KALAPAPA 480	4.30																																
KALAPAPA 493	1.37	.16	*		.38					.02	*		.26	.04	.02	.03	*	*	*		.02	*	.03	.02	*	*	*	.06	.11	.06	.03	.11	.02
KALAPAPA 341	2.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.60	T
KALAPAPA 374	.03	.01									T	T	T																		.02		
KALAPAPA 374	6.22		2.97	*	*	*	*	*	.09	*	*	*	*	*	*	*	.23	*	*	*	*	*	*	.83	*	*	T	T	T	*	*	2.10	*
KALAPAPA 398	.26			.09	*	*	*	*	*	*	T	T	T	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	T	*	.17
KALAPAPA 436	4.96																																
KALAPAPA 440	6.26	.52	.02	.21	.29	.17	.04		.36	.24	.68	.36	.52	.32	.35	.05	.01		.01			.11	.04	.25	.21	.26	.14	.15	.16	.46	.15	.18	
KALAPAPA 375	.83					.41								.08						.17	*						.17						
KALAPAPA 410	.08				.03															.03	*	*	*	*	*	*	*	*	*	*			
KALAPAPA 340	10.80																															10.80	*
KALAPAPA 260.2	.01																																
KALAPAPA 311	5.23	.51	.03		.01	.18	.13	.02	.07	.09	.20	.21	.38	.15	.05					.41	.25	.12		.06			.59	.06	.23	.08	.81	.13	.53
KALAPAPA 323.2	.58	.06																															
KALAPAPA 267	3.34	.02	.09	T	.30	.20	T													.46	.28	.07										.14	
KALAPAPA 361	.02																																
KALAPAPA 376	.95																																
KALAPAPA 372	.00																																
KALAPAPA 372	.00																																
KALAPAPA 442	6.30																																6.30
KALAPAPA 466	.75	.12	*		.10	*	*																										.05
KALAPAPA 60-497	1.99					1.04	*	*					.26															.05		.04	.13	.05	.49
KALAPAPA 332	.66	*	T	*	*									T	T					.08	*	*						.09					
KALAPAPA 296	.00					.25	.01													.01	T		.01	T			.02	T	T	T	.01	.09	.26
KALAPAPA 377	1.20																																
KALAPAPA 350	10.27	1.01	.17	.05	.57	.31	.13	.04	.33	.43	.70	.28	.81	.53	.45	.11	.19		.14	.06	.04	.31	.29	.23	.59	.84	.47	.25	1.20	.30	.20	.26	
KALAPAPA 406	.58	.04			.07							.05	.01	.11																			
KALAPAPA 259.2	1.81	1.31	*	*																													
KALAPAPA 490	2.83	.19	*	*		.19	.03	.02	.07	.03	.02	.20	*	.52	.15	.13								.06	.02	*	.53	.12	.13	.17	.03		

DAILY PRECIPITATION

Continued

HAWAII
AUGUST 1948

Station		Total	Day of Month																															AUGUST 1968	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KAUHAUNA 88.1	A	12.71	.13	.20	.04		.51	.05	.85	.40	.57	.71	.85	1.16	.70	1.48	.24			.93	.78	.04		.12	.53	.03	.62	.70	.20			.81	.06		
KEAUNU LOWER 193		7.39		1.28							1.62																					.92			
KEAUNU 92		7.37	.31	.10	.07		.06	.30	.04	.53	.29	.04	.12	.23	.36	.51	.29	.29	2.45		.53	.45		.06	.25	.07	.12	.49	.28	.12		.55	.91		
KEALAKEKUA 26.2	A	5.83		.13					.51	.57	.77			.51						.02	.16			.57	1.95	.16	.09	.02	.01	.07	T	.05	.01		
KEHEHA 181.2	A	4.25							.08																								4.25		
KIDILAKAA A & F 6	A	2.06																																	
KIPA 89.2	A	12.58	.04	.32	.09		.01	.52	.12	1.18	.20	.13	.85	1.01	1.30	.40	1.90	.38	T		.53	.64	.01	.01	.04	.81	.02	.82	.40	.09		.63	.13		
KOHALA 179.1	A	2.30	.28	.02			.80	.03					.21	.10	.31	.01															.11	.03			
KOHALA MAUILI 176	A	3.10	.20	.03			.65	.15					.20	.02	.38	.04							.17	.17	.30		.31	.41			.05	.02			
KOHALA MISSION 175.1	A	3.07	.39	.04	.08		.72	.01	T	.04	T	T	.11	.14	.06	.10	.36	T				.01		.18	.05	.26	T	.04	.04	.07	T	.15	.09	.13	
KOIAWE LOWER 196	A	4.24		.78							1.20								1.34					.42								.50			
KONA AIRPORT 68.3	A	2.06							.30	.80	.10			.03	.03								.02	.10	.08	T			T						
KONA VILLAGE 93.8	A	2.06							.40				.23	.23	.12	.02							.04	.15		.67	.02	.25		.07					
KUKAIUA 222	A	4.17		.03	.10		.14		.15			.23	.23	.12	.04	1.61	.29	.01	.40			.04	.15												
KUKUIHAELE MIC 199	A	2.65	.05	.08	.12		.20	.22		.15		.16	.08	.11		.51	.48		.01																
KUKUIHAELE MILL 206	A	2.88	.14	.06			.40		.25	.04		T		.11	.05	.75	.08																		
KULANI CAMP 79	A	3.97	.04	.03			.65		.37	.11	.18	.12	.13	.33	.25	.22	.08						.01		.66			.32	.01						
KULANI MAUKA 76	A	1.85	.06	.01	.02		.53		.12	.04	.03	.05	.10	.04	.19	.02	.05			.10	.07	.30	T	.07	.30		.10				.32	.08			
KULANI SCHOOL SITE 78	A	6.55																																	
LANIHUA 68.2	A	10.21	.10	.22			.26	.58	1.17	.12		.30	.04					.22				1.49	2.65	.11	.12		5.50	.65			.08	2.10			
MAHUKA 2	A	2.21	T	.22			.78	T		.16	T			.31	T	.04	.20					.15		.10	T	.20			.04	.01					
MAUNA KEA BEACH 98	A	.74				.10									.12							.32													
MAUNA LOA SLOPE 085	A	2.14			.08		T															.02													
MIDDLE MOLIULUA 68.1	A	6.09					.05		.75	2.12						.41	.63	.22	.70	.55	.49	.01		.06											
MIDDLE PEN 147.1	A	.05																.24	.40	.60													.77		
MOAULA 18	A	.70																															.05		
MOUNTAIN VIEW 91	A	11.91	.65	.24	.12		.10	.55	.13	.58	.63	.13	.25	.48	.73	.58	.59	.17			.93	.79	.05	.04	.30	1.23	.17	.71	.42	.15			.89	.70	
NAALEHU 14	A	.30		.06			.05	T			.10			.01																			.30		
NAPPOPOD 28	A	3.85					.19						1.22																						
NAULU FOREST 38.6	A	2.19			.01		.37		.24			.05	.33								.11				.07	.13	T	.10	.08	.02			.68		
NIULI 179	A	2.90	.47	.05			.78		.03		.04			.18	.10	.64	.01				.02		.10	.02	.14			.14			.04				
ODKALA 223	A	4.90		.05	.20		.12	.01	.21	.01		.20	.32	.37	.15	1.50	.30	.03		.15													.07		
OPHIOMALE 2 24.1	A	4.75	.24	.13	.01	.01	.21	.36	.05	.65		.01	.50	.01	.07	T	.10	.03	.09	.05	.03	.83	.58	.05	T	.80	.02	.13	.03	.05	.33	.06	.01		
ORCHID LANG EST 91.5	A	10.72		2.20							1.66							2.26						1.58								3.02			
PAAUMAHU 217	A	2.55		.06	.24	.11	.01	.07				.23	.04	.06	.02	.86	.30	.01						.37			.13	.01					.03		
PAAUULO 221	A	3.62		.01	.18	.68	.01	.15				.15	.16	.11	1.30	.10									.61	.03	.13						.01		
PAHALA 21	A	.51					.12		.29	.20	.15	.23	.45	.67	.32	.77	.21			.04	.03	.23	.22	.04	.05	.23	.19	.33	1.39	.81	.20	.50	.36	1.06	
PAHOA 65	A	10.54	.22	.20	.12	.10	.54	.27	.29	.20	.15	.23	.45	.67	.32	.77	.21			.04	.03	.23	.22	.04	.05	.23	.19	.33	1.39	.81	.20	.50	.36	1.06	
PAKAO 37	A	8.50																															8.50		
PAPAIAKU 144.1	A	8.91	.35	.42	.18		.28	.09	.55	.19	.08	.40	.30	.87	.82	.58	.59	T		.53	.03	.03	.06	T	.33	.06	.47	.53	.48				.69	T	
PAPAIAKU MAUKA 140.1	A	12.11	.11	.34	.02	.03	.23	.11	.57	.18	.31	.80	.72	1.26	.57	2.37	.75	.01	.57	.23	.01	.05	.06	.59	.03	.70	.73	.17			.51	.08			
PEPEEKED HAKAI 144	A	7.32	.35	.43	.01		.23	.13	.11	.07	.04	.90	.40	.48	.64	.20	.23		.80	.01		.05	.11	.17	.08	.77	.57	.22		.01	.48		.08		
PIMMONUA 89	A	15.20																														15.20			
POHAKULUA 107	A	.50																																	
PUAKO 95.1	A	.12	.03			.02									.05						.02		.25		.25										
PUU KIME 120	A	.51																															.51		
PUU LAHU 102.1	A	3.05																															3.05		
PUU LEMUA 73	A	4.10																															4.10		
PUU MALI 113	A	.55																																	
PUUKUKUHAU 167	A	1.53	.05	.01			.21		.18					.08	.01	.16								.02	.02	.25			.20	.15	.05	.12	.02		
PUU OO 82	A	4.79	.06	.05	.06	.11	.64		.22	.07	.20	.18	.31	.32	.19	.32	.12			.25	.05	.03	.01	.17	.25		.27	.10	.12		.07	.47	.15		
PUU WAAWAA 94.1	A	2.58	.15				.14																											.54	
SADOLE ROAD 1 84	A	14.46		2.00							3.18							4.10															1.67		
SOUTH POINT CORRAL 3	A	.06			.01				.09			.05																							
UMIKUA 118	A	1.43			.07	.35			.09			.14	.04		.35	.18	T			.02												.01	.14		
UPOLU POINT USCG 159.2	A	.87	.07	.06	.01			.10	.01		.01	.01													.04	.04	.01	.06	.01			.04		.02	
WAIKAE 500 88.2	A	11.78	.18	.19	.05	.40	.42	.05	.50	.15	.43	.60	.93	.94	.77	1.36	.36		.75	.31	.01	.04	.41	.45		.64	1.24	.21			.79				

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150TH MERIDIAN TIME				Trace	01-09	10-49	50-99	100-199	200 and over	Total		
							2 AM	8 AM	2 PM	8 PM									
HILO, HAWAII, WB AIRPORT	26	0.8	5.4	17	E	31+	88	81	73	85	3	8	13	5	0	1	30	38	7.5
HONOLULU, OAHU, WBFC	5	13.2	13.8	28	NE	11	73	67	50	69	14	3	0	0	0	0	17	74	5.2
KAHULUI, MAUI, WB AIRPORT	5	13.3	14.3	29	NE	24+	81	71	56	73	10	1	1	0	0	0	12	78	5.0
LIHUE, KAUAI, WB AIRPORT	6	10.8	11.3	20	E	12	84	77	70	81	10	13	1	0	0	0	24	70	6.8

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Continued

DAILY TEMPERATURES

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Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
WAILUKU 392	MAX MIN	87 75	87 74	88 74	88 74	88 76	87 74	89 75	87 75	88 74	87 75	87 74	86 74	84 74	87 74	88 74	89 72	89 72	90 74	87 74	89 74	89 75	88 74	89 74	87 74	89 74	88 74	89 74	88 74	88 74	88 74	90 73	87.9 74.1
* * *																																	
ISLAND OF HAWAII																																	
HAUNA 214	MAX MIN	85 67	85 67	85 66	85 66	85 71	84 68	84 69	85 67	85 67	85 67	83 64	84 65	84 68	84 68	81 65	84 64	85 65	84 65	86 66	85 66	86 66	85 67	86 65	84 68	85 66	85 67	85 67	85 66	85 65	85 66	86 68	84.7 66.5
HAWAII VOLCNS NP HQ 54	MAX MIN	72 56	68 57	74 57	74 60	75 66	66 57	72 57	69 55	70 55	70 55	70 57	70 55	72 56	72 58	72 51	74 55	77 53	73 54	70 55	71 56	71 58	81 54	70 57	71 56	73 56	79 56	68 56	73 55	74 52	71 55	72 55	71.9 55.8
HILO WB AIRPORT 87	MAX MIN	82 69	84 70	84 69	86 69	85 72	86 71	84 71	85 69	85 67	81 70	81 70	82 70	84 69	83 69	85 68	85 67	83 68	85 69	85 68	84 69	82 69	83 68	84 69	83 67	84 68	85 68	85 70	85 69	85 67	85 68	85 70	84.1 68.9
KAINALIU 73.2	MAX MIN	85 67	81 66	81 68	83 67	83 68	80 68	81 68	80 66	79 65	82 66	79 65	81 67	80 67	82 65	83 67	83 66	82 65	83 67	84 65	82 63	80 67	79 68	80 65	81 65	80 65	81 65	79 65	81 65	80 66	83 65	83 65	81.9 66.2
KAMUELA 192.2	MAX MIN	76 60	73 61	75 62	80 63	79 63	78 60	78 60	79 60	75 60	76 60	75 60	75 60	74 59	75 59	75 60	78 55	76 55	78 55	80 55	78 55	78 55	78 60	75 60	75 60	76 60	78 58	76 58	76 51	80 54	79 60	76.8 58.4	
KAMUELA AIRPORT 191	MAX MIN		77 60	78 60	81 58	80 62	79 60	79 58	77 59	78 52	76 59	77 61	75 58	77 60	79 61	77 57	79 54	78 54	81 54	79 58	77 54	77 54	76 52	77 52	77 54	78 52	79 59	78 65	78 51	78 51	78 51	78 52	77.8 56.6
KEAAU 92	MAX MIN	84 69	82 69	87 68	87 68	87 68	85 68	86 69	86 69	85 67	86 67	86 67	86 67	82 67	84 67	84 67	85 66	86 67	86 67	86 67	85 67	81 69	85 68	85 68	86 67	86 67	86 67	85 65	85 65	86 65	86 65	84 65	85.1 67.3
KEALAKEKUA 26.2	MAX MIN	83 68	80 65	82 68	82 67	80 68	81 70	81 68	81 66	78 66	82 66	81 65	82 66	79 66	81 66	82 66	82 66	82 66	83 66	84 67	83 65	79 65	80 67	80 67	81 66	80 66	80 66	80 66	81 65	80 66	82 66	81 66	81.0 66.5
KOHALA MISSION 175.1	MAX MIN	83 70	81 70	82 70	84 70	83 72	80 72	82 72	83 71	82 71	82 69	81 70	81 70	81 70	83 70	82 70	82 67	83 68	84 67	84 71	84 71	84 70	82 71	83 70	83 71	83 67	83 69	84 70	83 70	85 67	83 67	83 64	82.7 69.6
KONA AIRPORT 68.3	MAX MIN	86 69	86 68	87 69	87 68	86 68	86 68	86 68	85 69	85 69	85 67	86 68	86 68	86 68	86 68	86 68	87 69	87 69	89 70	88 70	88 69	88 69	88 68	87 68	86 69	85 68	87 68	85 68	86 68	86 68	87 68	87 69	86.5 68.5
KULANI CAMP 79	MAX MIN			70 50	70 50	69 48	72 50				70 47	72 48	73 47				75 49				73 48	68 49	66 48	66 49		68 48	67 49	69 52	67 50		69 50	70 45	
MAUNA KEA BEACH 98	MAX MIN	89 75	90 75	88 76	90 70	88 76	86 75	86 75	88 75	88 74	88 76	90 75	88 75	88 74	89 74	88 73	88 73	87 73	90 74	89 72	88 73	88 75	88 73	88 75	90 74	92 74	93 74	88 76	92 72	88 72	88 75	88 76	88.7 74.2
MAUNA LOA SLOPE 085	MAX MIN	50 37	56 39	56 42	57 40	58 44	59 39	58 38	55 38	57 39	58 42	57 40	60 41	57 40	54 37	51 37	50 36	52 36	50 35	53 35	53 37	57 37	53 38	56 36	58 37	58 36	62 39	63 46	65 43	58 39	55 39	55 40	56.2 38.7
MOUNTAIN VIEW 91	MAX MIN	78 64	77 64	82 62	83 63	84 64	83 65	81 65	81 64	78 62	80 62	78 65	75 64	79 63	76 62	80 61	83 61	83 65	78 65	79 62	80 63	82 62	79 61	78 61	81 63	81 63	78 63	80 63	82 63	83 63	80 61	81 61	79.7 62.6
NAALEHU 14	MAX MIN	83 71	82 68	81 68	85 68	86 68	81 72	84 73	84 73	84 69	84 69	84 69	85 69	81 69	85 69	84 68	84 70	84 70	84 70	85 71	85 71	84 71	84 71	84 71	84 71	84 71	84 71	83 70	84 69	85 69	85 69	85 69	83.9 69.9
PAHALA 223	MAX MIN	84 73	83 71	80 70	85 70	85 70	83 75	84 72	84 70	85 73	85 70	89 70	89 69	83 68	81 68	81 68	82 68	84 68	84 69	85 70	83 69	83 69	83 69	84 71	84 69	83 68	84 69	84 68	83 68	83 68	84 68	84 68	83.3 70.3
OPIHIHALE 2 24.1	MAX MIN	84 66	82 65	82 64	80 66	82 67	83 68	80 67	77 63	81 63	79 62	82 64	82 64	79 63	83 65	83 65	80 65	84 64	84 64	86 62	82 65	76 67	82 64	80 64	81 64	77 63	81 63	78 62	77 62	82 63	82 64	79.7 64.1	
PAHALA 21	MAX MIN	83 66	80 66	85 65	86 67	85 68	79 68	83 69	84 65	83 66	84 65	84 65	82 65	86 64	84 64	85 64	84 64	84 64	85 68	82 64	83 65	83 65	84 66	83 65	85 65	84 66	84 66	81 64	85 64	84 63	85 67	83.5 65.5	
UPOLU POINT USCG 159.2	MAX MIN	86 72	87 72	85 72	87 72	87 74	88 74	86 73	86 73	87 74	86 75	85 72	85 72	86 72	86 72	92 75	87 73	86 74	88 74	89 72	88 71	85 71	86 70	87 70	87 71	86 71	86 70	87 71	86 71	86 71	87 71	86.6 72.6	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.30	.31	.32	.26	.24	.30	.27	.25	.25	.42	.36	.34	.32	.33	.33	.35	.27	.30	.26	.28	.27	.27	.30	.45	.33	.30	.32	.27	.31	.28	.28	9.44
	WIND	34	25	35	23	25	34	40	34	36	49	55	52	46	46	40	36	21	22	27	29	36	37	35	57	50	39	41	38	37	37	31	1147
	MAX	95	95	96	99	92	86	96	90	92	96	96	97	95	95	97	97	99	99	97	95	93	93	96	97	97	95	95	94	96	92	98	95.2
	MIN	74	72	73	72	75	72	72	72	72	71	70	71	70	70	70	69	71	72	72	73	71	71	71	71	72	71	71	73	72	71	71	71.5
* ISLAND OF HAWAII																																	
HILO WB AIRPORT 87	EVAP	.17	.23	.26	.17	.17	.24	.22	.15	.25	.07	.18	.07	.14	.34	.24	.29	.06	.12	.20	.14	.14	.12	.21	.20	.08	-	-	-	-	-	-	5.538
	WIND	51	66	59	50	44	56	48	47	50	50	51	45	63	46	40	40	23	38	44	36	35	40	36	36	38	44	33	47	57	43	47	1403
	MAX	86	90	94	91	87	90	90	84	91	83	82	84	86	84	85	85	84	87	90	90	92	83	92	93	90	92	92	89	89	92	90	88.3
	MIN	70	70	69	70	72	70	71	69	67	70	70	70	71	70	69	68	67	70	68	68	69	67	67	67	67	69	69	67	68	64	69	68

See Reference Notes Following Station Index

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STATION INDEX

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CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL (REF. NOTE)	
ISLAND OF HAWAII												
MOAULA 18	A 4407	03 KAU		3 19 11	155 30	600		MO				HAWAIIAN RANCH CO PUNA SUGAR CO
MOUNTAIN VIEW 91	A 6552	02 RUNA		2 19 33	155 07	1430	6A	6A				HITCHINSOHN SUGAR CO KONA EXPERIMENT ST
NAALEHU 14	A 6588	03 KAU		3 19 04	155 35	673	8A	8A				HAWAII VOLCANOES NAT P
NAROKORO 78	A 6697	04 S KONA		4 19 28	155 45	395	7A	7A				KIMHALA SUGAR CO
NAULU FOREST 38-6	6731	02 PUNA		2 19 19	155 08	1400	VAR					LAURAHOMEH SUGAR CO
NIULI 179	A 6804	01 N KOHALA		1 20 14	155 45	75	6A					HISS & LEONARD
OWALA 223	7131	02 N HILO		2 20 01	155 17	830	7A	7A				RAHARD SUGAR CO
PEPEHIALE 2 24-1	7166	04 S KONA		4 19 16	155 53	1270	7A	7A				BOARD OF WATER SUPPLY
PECHID LAND EST 91-5	A 7185	02 RUNA		2 19 34	155 00	445	VAR					RAHARD SUGAR CO
RAHIMAU 217	7206	01 HAMAKUA		1 20 05	155 26	415	7A					
PAKULU 221	7312	01 HAMAKUA		1 20 03	155 22	890	7A					HAMAKUA MILL CO
PAHALA 21	7421	03 KAU		3 19 12	155 29	870	8A	6A				HAWAIIAN AGR CO
PAMOA 65	7457	02 RUNA		2 19 30	154 57	670	6A					PUNA SUGAR COMPANY
PAPA 37	A 7645	03 KAU		3 19 22	155 28	5000	MO					HAWAIIAN RANCH CO, INC
PAPAIAU 144-1	7711	02 S HILO		2 19 47	155 06	200	7A					MAUNA KEA SUGAR CO
PAPAIAU MAUKA 140-1	7721	02 S HILO		2 19 47	155 08	1270	7A					MAUNA KEA SUGAR CO
PEPEHIALE MAUKA 144	8000	02 S HILO		2 19 51	155 05	100	7A					PEREPEKO SUGAR CO
PEPEHIALE 89	A 8051	02 S HILO		2 19 44	155 10	1730	MO					STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02 HAMAKUA		2 19 44	155 32	6511	VAR					STATE DIVISION OF PARKS
POHAKULOA 9-1	8186	01 KOHALA		4 19 59	155 50	4	6A					ERWIN H. PARR

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL	
ISLAND OF HAWAII												
PUU KIME 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750		MO			KUAIKAAU RANCH CO
RUU LAAU 102-1	A 8452	04	HAMAKUA	4	19 50	155 36	7440		MO			STATE DIV OF FISH-GAME
RUU LEHA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6940		MO			KUAIKAAU RANCH CO
PUUOKUMAU 167	A 8548	01	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
RUU DO 82	A 8550	02	S HILO	2	19 44	155 23	6340		6A			W. M. SHERMAN, LTD
RUU WAHAA 94-1	A 8555	05	N KONA	5	19 47	155 51	2520		7A			STILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	400		WI			HUTCHINSON SUGAR CO
S POINT TRACKING STA	A 8679	03	KAU	3	18 57	155 41	305					FEDERAL ELECTRIC CORR
UMIKOA 118	A 8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUAIKAAU RANCH CO
URULU POINT USCG 159-2	A 8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIKAE SCD 88-2	A 9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKAWA 178-6	A 9350	01	N KOHALA	1	20 08	155 47	3930					KAHUA RANCH

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. D. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Traces, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

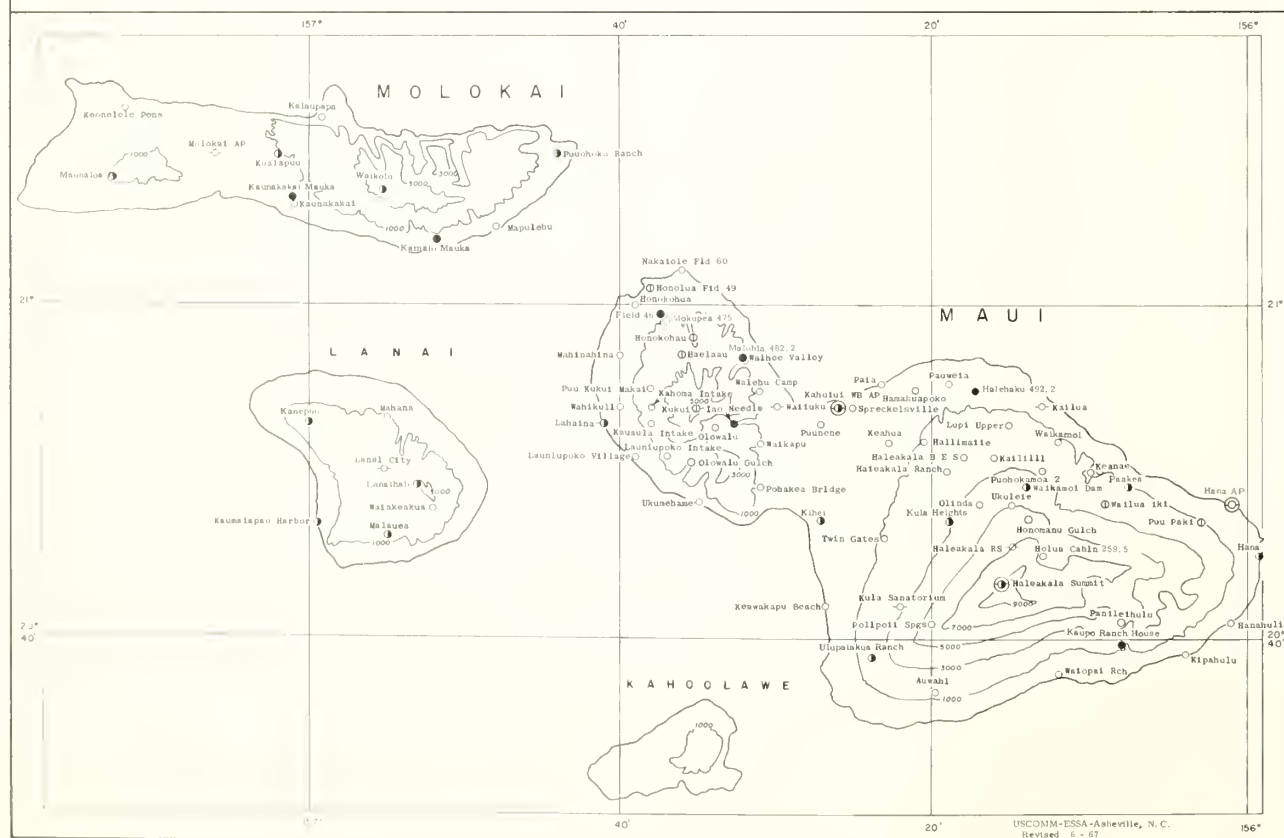
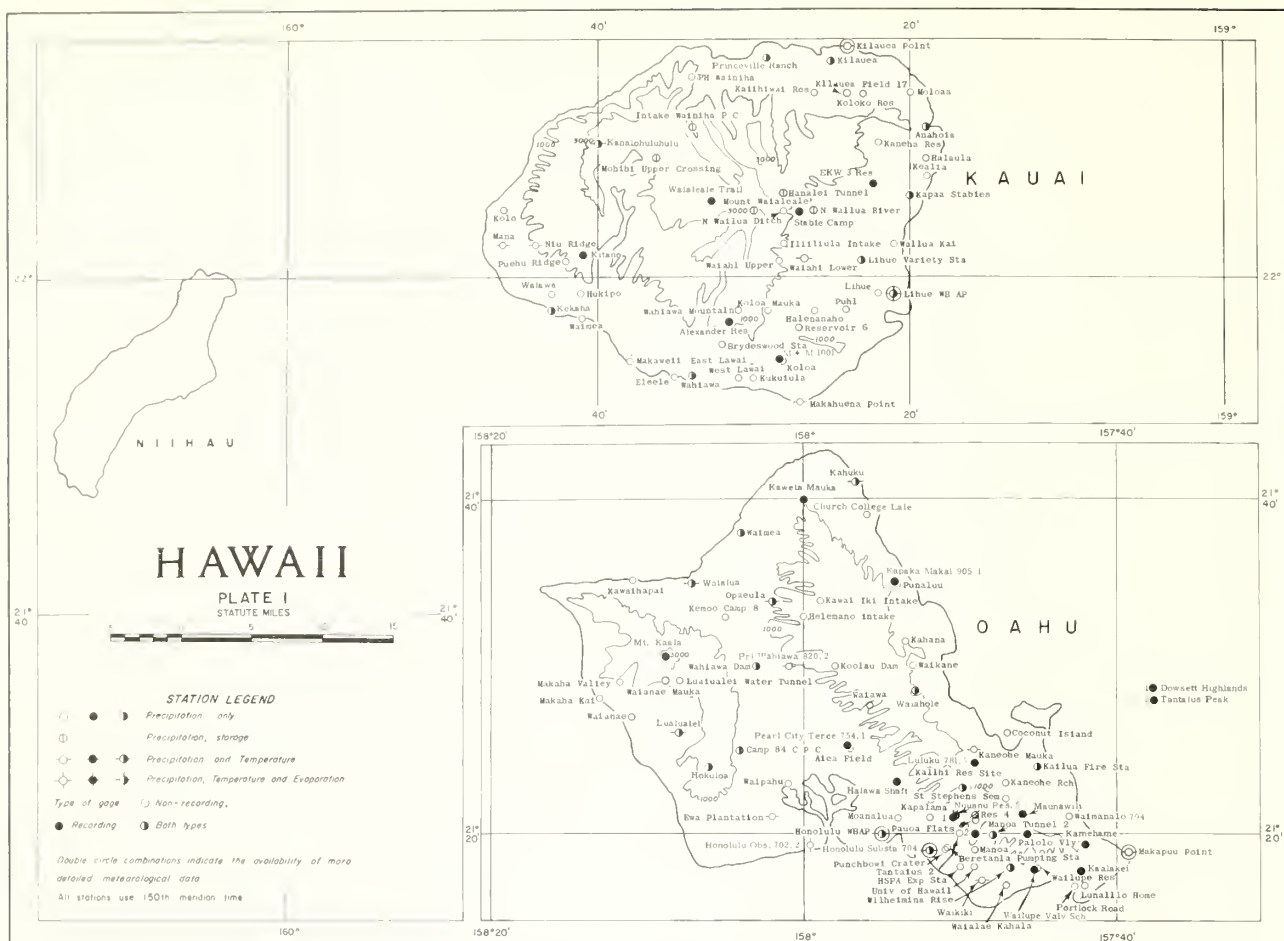
- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly, usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

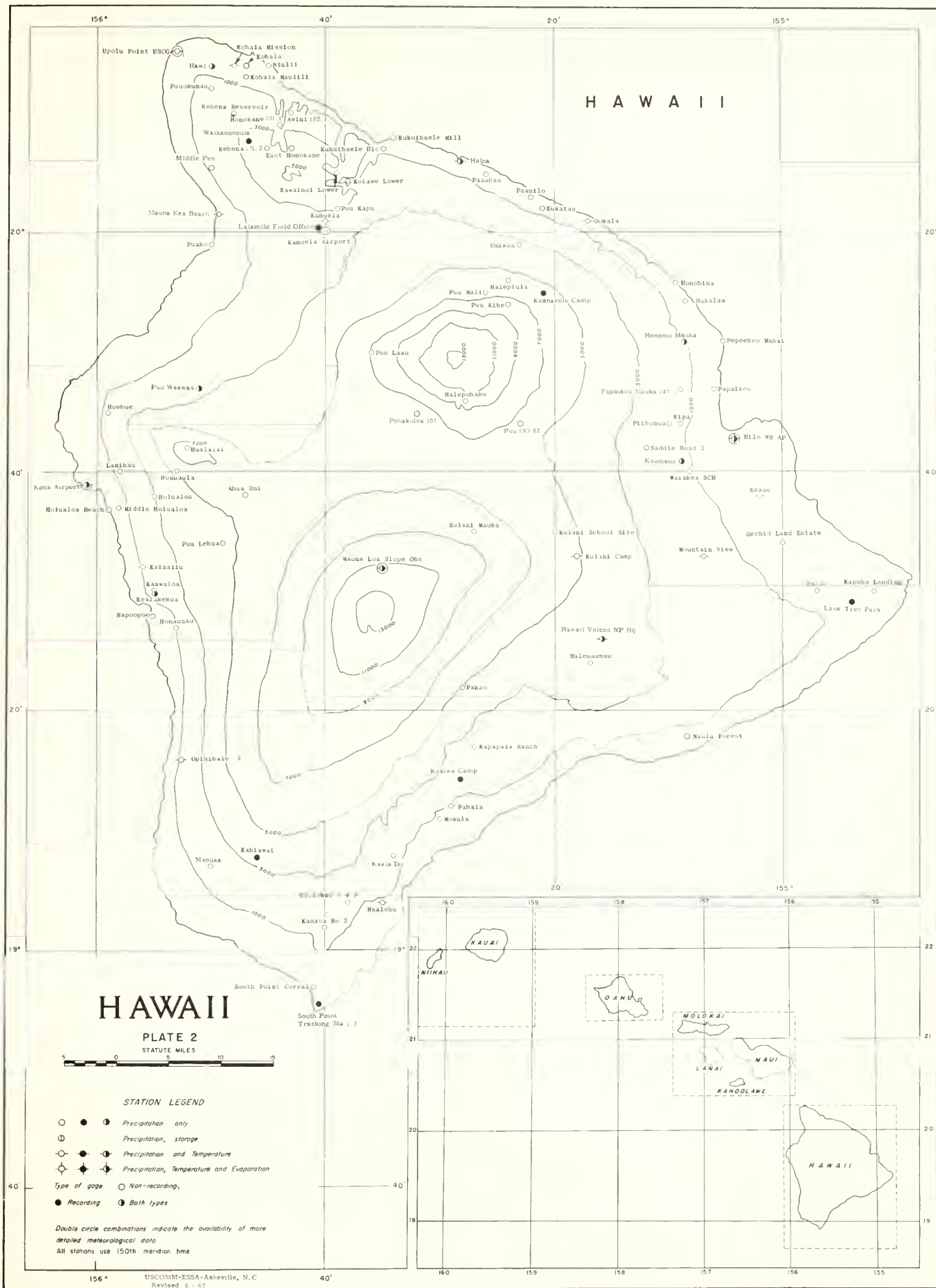
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.







CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE

C. R. SMITH, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

SEPTEMBER 1968

Volume 64 No. 9

CLIMATOLOGICAL DATA

HAWAII
SEPTEMBER 1968

Station		Temperature										Precipitation												
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
											Max.	Min.	Total	Total				Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More		
																							50° or Above	40° or Below	30° or Below	20° or Below
ISLAND OF KAUAI																								
ANAHOLA 1111	A	76.2	55.4	65.8		80 17+	49 30+				0	0	0	0	2.37	.24	.62	4	.0	0		6	2	0
KANALOHULU 1075	A														2.38		.88	27	.0	0				
KAPAA STABLES 1104	A														3.88		1.36	10	.0	0		1	1	
KILAUEA FIELD 17 1135	A														5.39	.11			.0	0				
KILAUEA POINT 1133		87.3	73.8	80.6		90 5	67 8				1	0	0	0	8.64		3.45	8	.0	0		11	3	2
KOLOA 936	A														3.15	- 1.23			.0	0				0
LITHUE WB AP 1020.1	R	83.9	73.4	78.7	.6	85 13+	65 30				0	0	0	0	3.17	1.09	1.62	9	.0	0		8	1	1
MANA 1026		89.7	69.7	79.7	1.8	92 19+	66 25				15	0	0	0	1.34	.55	.66	27	.0	0		2	2	0
N WAILUA OITCH 1051	A														9.95				.0	0				
PH WAINIHA 1115															4.49	- 1.58	1.12	27	.0	0		9	3	1
PUEHU RIDGE 1040															2.41		1.10	27	.0	0		6	2	1
WAHIAWA 930	A														.88	- .83	.50	4	.0	0		1	0	
WAIHAI LOWER 1054		83.8	66.1	75.0		89 8	61 30				0	0	0	0	6.43		.70	9	.0	0		20	3	0
WAIHEA 947															.46	- .20	.16	27	.0	0		3	0	0
ISLAND																								
				76.0											3.92				.0					
ISLAND OF OAHU																								
HONOLULU OBSERV 702.2															1.17		.69	21	.0	0		2	1	0
HONOLULU WBFC 703	R	89.6	74.3	82.0	2.8	92 4	70 30				19	0	0	0	1.30	.31	.69	20	.0	0		3	1	0
KAHUKU 912	A	87.0M	74.5M	80.8M	2.6	90 4+	70 30+								4.71	2.86			.0	0				
KANEOME MAUKA 781		84.7	73.0	78.9	2.1	86 18+	67 1				0	0	0	0	6.29	2.48	2.39	29	.0	0		13	3	2
KOOLAUA OAM 833															5.54	- .70	.99	1	.0	0		18	2	0
LUALUALE1 804	M					93 4	68 30								4.66		1.40	8	.0	0		7	5	2
MAKAPUU POINT 724						90 2	72 7+				1	0	0	0	.35	- .36	.35	7	.0	0		1	0	0
NUUANU RES 4 783															5.55	- 2.98			.0	0				
OPAEULA 870	A	85.2	67.1	76.2	3.0	88 21	63 29				0	0	0	0	5.93	3.49			.0	0				
PALOLO VALLEY 718															8.94	.51	3.02	7	.0	0		13	4	2
PR1 WAHIAWA 820.2	A	88.0M	68.0M	78.0M		91 3	64 29								1.72		.74	27	.0	0				0
PUNALUU 884	A														5.66				.0	0				
WAHIAWA OAM 863	A														1.88				.0	0				0
WAIHOLE 837	A														8.43	- 1.36			.0	0				
WAIKALUA 847	A	88.4	67.8	78.1	1.8	92 20	66 30+				10	0	0	0	1.80	1.01	.67	3	.0	0		4	1	0
WAIKIKI 717.2		89.3	74.2	81.8		93 22	70 30+				12	0	0	0	1.61		1.51	21	.0	0		1	1	1
WAIKALUA 750	A														2.26	1.18	.77	4	.0	0				0
ISLAND																								
				79.4											3.99				.0					
ISLAND OF MOLOKAI																								
KUALAPUU 534	A														1.27	.49	1.03	26	.0	0				1
MAPULEHU 542															2.68	.08	.56	27	.0	0		9	1	0
MAUNALOA 511	A														1.66	.55	.62	8	.0	0		4	1	0
MOLOKAI AP 524		86.1	73.4	79.8		89 2	70 7+				0	0	0	0	1.07		.47	26	.0	0		3	0	0
ISLAND																								
				79.8											1.67				.0					
ISLAND OF LANAI																								
LANAI CITY 672	A	79.9	66.9	73.4	1.9	83 2	64 6+				0	0	0	0	8.85	6.58	4.26	21	.0	0		17	5	2
ISLAND																								
				73.4											8.85				.0					
ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A	66.1	48.0	57.1		71 17+	43 29+				0	0	0	0	5.47	3.17	1.60	2	.0	0		10	3	2
HALEAKALA RS 338						87 20+	67 29								4.53		.83	7	.0	0		10	4	0
HANA AIRPORT 355		85.9	70.3	78.1							0	0	0	0	12.05		2.45	8	.0	0		15	5	5
HONOKOMUA 493	A														1.55	- .13	.49	24	.0	0				
KANAPALI AIRPORT		88.2	71.6	79.9		91 19+	67 2				4	0	0	0	.49		.29	26	.0	0		1	0	0
KAHULUI WB AP 398	R	90.4	69.3	79.9	1.5	95 1	62 5				20	0	0	0	.21	- .04	.10	24	.0	0		1	0	0
KAILUA 446		81.9M	69.2M	75.6M	2.3	88 18	65 30				0	0	0	0	7.83	.33	1.38	24	.0	0		14	4	3
KEANAE 346	A														10.90	- 1.33			.0	0				
KIPAHULU 258															11.39	4.54	1.73	26	.0	0		20	7	6
KULA SANATORIUM 267		74.8	59.1	67.0	.5	77 17+	56 28				0	0	0	0	4.92	2.95	1.61	19	.0	0		8	2	2
LAHAINA 361		89.0	72.2	80.6		92 2	70 28+				9	0	0	0	.52	.23	.52	26	.0	0		1	1	0
PAIA 406															1.01	- .27	.32	1	.0	0		5	0	0
WAILUKU 392		88.2	73.2	80.7	2.9	92 2	68 30				3	0	0	0	1.02	.42	.39	1	.0	0		4	0	0
ISLAND																								
				74.9											4.76				.0					
ISLAND OF HAWAII																								
HAINA 214		85.7	66.9	76.3	1.8	87 20+	64 29				0	0	0	0	1.16	- 1.13	.24	1	.0	0		5	0	0
HAWAII VOLCNS NP HQ 54		71.8	56.5	64.2	.9	75 14	51 25				0	0	0	0	4.57	- .52	1.08	8	.0	0		15	2	1
HILO WB AIRPORT 87	R	84.5	69.1	76.8	1.3	88 16	67 30+				0	0	0	0	8.53	.03	1.86	1	.0	0		19	4	3
HUEHUE 93.1	A														4.57	1.34			.0	0				
KAINALIU 73.2		81.3	66.3	73.8		85 1	63 20				0	0	0	0	6.07	- 1.53	2.25	22	.0	0		11	3	1
KAMUELA AIRPORT 191		78.1	56.1	67.1		82 3	51 29+				0	0	0	0	1.16		.52	4	.0	0		3	1	0

CLIMATOLOGICAL DATA

Continued

HAWAII
SEPTEMBER 1968

SEPTEMBER 1968

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										50° or Above	32° or Below	32° or Below	0° or Below										
KEAAU 92	86.1	66.8	76.5	1.6	88	17+	65	5+		0	0	0	0	15.73	6.68	3.65	1	.0	.0		22	7	5
KEALAKEUA 26.2	81.3	66.2	73.8		83	28+	65	30+		0	0	0	0	8.32		2.36	10	.0	.0		10	4	3
KONA AIRPORT 68.3	86.8M	67.3M	77.1M		89	19	62	18		0	0	0	0	.86		.25	5	.0	.0		4	0	0
KUKUIHALE HIC 199														1.58	- 1.21	.32	1	.0	.0		5	0	0
KULANI CAMP 79	67.9M	49.2M	58.6M		72	3	46	20+		0	0	0	0	6.85		1.72	30	.0	.0		4	2	
MAUNA KEA BEACH 98	88.5	74.1	81.3		98	15	72	29+		3	0	0	0	.81		.45	2	.0	.0		1	0	0
PAHALA 21	83.4	65.8	74.6	.9	87	15	63	25+		0	0	0	0	2.59	.06	.81	12	.0	.0		7	2	0
POHAKULOA 107														3.99				.0	.0				
PUAKO 95.1														.88		.24	30	.0	.0		4	0	0
PUU WAAWAA 94.1														5.83	3.50	1.43	9	.0	.0		4	1	
UMIKOA 118														1.40	- .76	.77	2	.0	.0		3	1	0
WAIKAE SCD 88.2														14.81		2.60	2	.0	.0		20	7	4
ISLAND			72.7											4.98				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 98° ON THE 15TH AT MAUNA KEA BEACH 98, HAWAII

LOWEST TEMPERATURE: 32° ON THE 17TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 21.84 INCHES AT MOUNT WAIKAELE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT TWIN GATES 261.3, MAUI

GREATEST ONE-DAY PRECIPITATION: 4.31 INCHES ON THE 1ST AT PAHOA 65, HAWAII

GREATEST REPORTED TOTAL SNOWFALL:

GREATEST REPORTED DEPTH OF SNOW ON GROUND:

HAWAII - SEPTEMBER 1968

SPECIAL WEATHER SUMMARY

The month was marked by continued warm weather and by a return of rainfall to many of the areas previously affected by persistent dry spells.

Locally heavy but scattered showers and thunder-showers were reported from every island of the State during the month, mainly in association with interruptions in the trade winds and with weak low pressure systems at the surface and aloft. The most intense rains appear to have occurred on the 9th in eastern and northern Kauai, where EKW #3 Reservoir had nearly 3-1/2 inches between 3:55 a.m. and 4:55 a.m. and Kilauea, approximately 5 miles to the north-northwest, about 3 inches of rain from 3:15 a.m. to 4:20 a.m.

In many parts of the State, however, rainfall remained below the September mean. The entire Hamakua Coast of Hawaii Island, and isolated gages in southern Kauai, eastern Oahu, and Maui's central valley received less than half their average for that month. Here and there, as an illustration of the sporadic nature of the showers, the catch over gages only a mile or so apart ranged from more than three times to less than one-half the September mean.

Although Honolulu Airport had only 1 thunderstorm day during the month, Wheeler Air Force Base had 6 -- owing apparently to the greater intensity of daytime heating in central Oahu, where the latter is located.

On the morning of September 2, a light blanket of snow deposited on the summit of Mauna Kea (elevation 13,796 feet) by a thunderstorm the previous day stretched downward 1,000 feet along its southeast flank.

Perhaps the most interesting aspect of September's weather was the continuation of above normal maximum temperatures throughout much of the State, a situation which gave rise to numerous queries and complaints about the unseasonableness of the weather. Oddly enough, stations at high elevations had abnormally low average maximum temperatures. For example, the mean monthly maximum of 53.4° recorded at Mauna Loa Observatory (elevation 11,150 feet) was 3.6° below the September normal and the lowest for that month since the Observatory opened in 1957. Haleakala Summit, elevation 10,025 feet, was 2.6° below its mean maximum, and the lowest in September in approximately 8 years of record.

Stations With More Rain in September 1968 than in Any Previous September

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest September Total	September 1968
LANAI			
Lanai City	38	7.74 inches	8.85 inches
HAWAII			
Ahua Umi	46	5.50	8.80
Honaunau	30	10.07	10.15
Pakao	39	11.76	12.10

Stations Which Recorded their Highest September Temperature of Record in September 1968

(10 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Highest September Temperature	Highest in September 1968
OAHU			
Makapuu Pt.	17	89 degrees	90 degrees *
HAWAII			
Opihihale 2	10	85	87

H A W A I I - S E P T E M B E R 1968

SPECIAL WEATHER SUMMARY - CONTINUED

Stations Which Recorded their Highest September Average Maximum
Temperature of Record in September 1968

(10 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Highest Sept. Average Maximum	Avg. Maximum in Sept. 1968	
OAHU				
Makapuu Pt.	17	83.3 degrees	84.8 degrees	*
HAWAII				
Kona Airport	19	86.4	86.8	*
Naalehu	13	83.6	84.6	*
Opihihale 2	10	81.0	81.4	
Upolu Pt. USCG	11	86.3	86.5	

* -- Highest in any month.

Saul Price
Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

Russell Dorr
Acting State Climatologist, Hawaii
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
SEPTEMBER 1968

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
ANAHOLA 1111	A	2.37	*	*	.10	.62		*	*	.56	.18		.03	.08	*	*	.03	.04	.02	.01	*	*	.41	.11	.17	.01							
BYOTESWOOD STA 985	A	2.06	*	*	.38	.01		*	*	.08	.07			.05	*	*	.21	.02	.01	.05	.07	*	*	.05	.03	.13		.88	*	*	.04		
EAST LAMAI 934	A	2.14	*	*	.01			*	*	.06	.07			.05	*	*	.12	.02	.01	.10	.12	*	*	.10	.18	.11		.52	*	*	.13		
ELEEE 927	A	.47	*	*	.09	.06								.12	*	*	.02																
HALAULA 1110	A	4.00	*	*	.10	1.10		*	*	1.10	.43	.03	.09	.06	*	*	.22	.03	.14	.18	*	*	.06	.19	.09	.03	.13						
HALENAHANA 1006	A	5.31	*	*	.28			*	*	.77	.59			.16	*	*	.64		.07	.59	.43	*	*	.36	.14	.48	.07	.47	*	*	.26		
HUKIPO 945	A	.73																															
ILILIILUA INTAKE 1050	A	7.89	.60	.08	.10	.03		.08	.20	1.90	.53	.08	.18	.32	.40	.07	.10	.18	.20	.53	.04	.39	.03	.12	.30	.68	.03	.58	.14	*	*	.39	
INTAKE MAINIMA PC 1086	A	5.35	*	*	.93	*	.64		*	.36	.16	*	*	.26	*	*	.28	.10	.35	.04	*	*	.20	.37	.17	.23			*	*	.39		
KALIMHAI RES 1131	A	5.84	*	*	.79			*	*	.27	1.20	.02	.09	.08	*	*	.20	.14	.06	.85	.02	*	*	.12	.36	.60	.02	.82	*	*	.20		
KANALOMULU 1075	A	2.38	.04	*	.10	.30				.07	.03	.11		.04	*	*				.04				.15	.52	.08	.88	*	*				
KANEHA RESERVOIR 1092	A	6.44	*	*	.20	.05		*	*	1.00	2.30	.05	.10	.11	*	*	.39	.20	.05	.15	.24	*	*	.43	.40	.30	.10	.37	*	*	.02		
KAPAA STABLES 1104	A	3.88	*	*	.18	.10		*	*	.28	1.36	.08	.07	.05	*	*	.28	.10	.35	.04	*	*	.20	.37	.17	.23			*	*	.02		
KESLII 1112	A	2.98	*	*	.09	.45		*	*	.40	.36	.08	.09	.04	*	*	.10	.24	.42	.10	*	*	.30	.06	.08	.02	.18	*	*	.05			
KEKAMA 944	A	.42																															
KILAUEA 1134	A	5.68	*	*	.26		.04	*	*	3.10	.30		.05	.04	*	*	.09	.09	.02	.47	.02	*	*	.04	.06	.49	.05	.52	*	*	.04		
KILAUEA FIELD 17 1135	A	5.39	*	*	.05			*	*	1.77	.43	.04	.04	.12	*	*	.22	.19	.01	.37	.04	*	*	.10	.32	.47	.04	.30	*	*	.08		
KILAUEA POINT 1133	A	8.64				.15	.06			3.45	.44	.06	.08	.07	*	*	.01	.08	.42	.17			.24	.15	.82	.25	.37			1.82			
KOLO 1033	A	1.12								.27	.05								.03														
KOLOA 936	A	3.15	*	*	.93	.02	.01	*	*	.37	.17	.03		.17	*	*	.29	.02	.02	.21	.11	*	*	.20	.30	.13			*	*	.10		
KOLOA MAUKA 994	A	4.60	*	*	.27			*	*	.84	.21		.05	.21	*	*	.51	.07	.46	.21	*	*	.20	.25	.49	.02	.74	*	*	.07			
KOLOKO RES 1137	A	5.88	*	*	.94			*	*	2.40	.20	.05	.13	.27	*	*	.09	.15	.09	.43	.01	*	*	.17	.55	.30	.20	.23	*	*	.03		
KUKULUA 935	A	.95	*	*	.25	.07		*	*	.07	.02			.02	*	*	.06	.03	.21	.13	.05	*	*	.06	.09	.07	.13	*	*	.03			
LIMUUE 1020	A	9.78	.58	*	.01			.11	*	1.34	.49	.06	.31	.15	.10	.02	.08	.03	.21	.13	.05	*	*	.12	.40	.11	.05	.56	.03	.10			
LIMUE W8 AP 1020.1	R	3.17	.12		.08		.01	.01	.16	1.62	T	.03	.02	.11			.01	.01	.08	.02	.02			.27	.15			.31	T		.16		
HAKAMUENA POINT 940.1	A	.98	.05					.01	.01	.12	.05	.04		.26	.01					.04	.05	.05	.03	.02	.05	.03	.05	.11					
HAKAMELI 965	A	2.66						.15		.01	.01	.03		.02																	1.67		
HANA 1026	A	1.34			.55					.12	.05			.08									.09								.66		
HOHIMI UPR CROSS 1083	A	3.66	.14	.14	1.50					.32				.08			.13	.08					.32	.08							.56		
HOLLOA 1145	A	1.99	*	*	.30			*	*	.33	.09			.03	.10	*		.13	.09	.03	.07	*	*	.07	.04	.03	.03	.05				.16	
HOUNT MAIALEALE 1047	A	21.84	2.44	1.65	.16		.04	.28	.87	2.48	.59	.59	.91	.83	.28	.24	.28	.20	.12	.51	.20	.39	.16	.94	1.89	.08	2.99	.08	.16	.20	2.28		
NIU RIDGE 1035	A	1.14				.14		*	*	2.00	.80			.20	.50	*		.60	.30	.18	.36	.20	*	*	.50	.20	1.16	.10	1.80	*	*	.11	
N. WALLACE DITCH 1051	A	9.95	*	*	.96			*	*	.28	.45			.02	.16					.57													
PH MAINIMA 1115	A	4.49	.64	.04	.20	.09		.01	.10	.88	.79	.01	.06	.07	.07			.13	.57				*	.58	.83	.03	.57						
PRINCEVILLE RANCH 1117	A	6.24	.04	.10	.54	.71				1.08	.79	.01	.06	.07	.07																		
PUEHU RIDGE 1040	A	2.41			.15			*	*	.25	.80			.19	*	*	.46	.03	.04	.32	.12	*	*	.22	.33	.41	.03	.38	*	*	.08		
PUMI 1013	A	4.08	*	*	.19		.03	*	*	.61	.62	.02		.19	*	*	.46	.03	.04	.32	.12	*	*	.22	.33	.41	.03	.38	*	*	.08		
RESERVOIR 6 1004	A	4.40	*	*	.19			*	*	.60	.35		.04	.18	*	*	.54		.93	.19	*	*	.20	.18	.45	.05	.55						
WAIHANA 930	A	.88	*	*	.50			*	*					T	*	*	.10		T	*	*		T	T	T	T	T						
WAIHANA MOUNTAIN 990	A	15.00	*	*				*	*					T	*	*			T	*	*		T	T	T	T	T					15.00	
WAIAMI LOWER 1054	A	6.43	.66	.02	.14	.05	.02	.15	.05	.70	.38	.17	.14	.30	.26	.06	.08	.10	.32	.42	.15	.30	.07	.39	.40	.35	.10	.53	.12				
WAIAMI UPPER 1052	A	7.94	.75	.05	.03	.03	.11	.16	.09	1.72	.56	.08	.05	.45	.23	.05	.08	.35	.41	.48	.26	.03	.03	.42	.75	.04	.58	.08	.05	.02			
WAIHANA 943	A	.48	*	*				.05	*														.12	.22	.21	.05	.14	*	*	.20			
WAILUA KAI 1065	A	9.39	*	*	.07			*	*	1.28	.75			.14	*	*	.05		.12	.04	*	*	.13	.15							.02		
WAIHANA 947	A	.46								T																							
WEST LAMAI 931	A	1.08	*	*	.30	.04		*	*	.03	.02			.05	*	*	.18			.01	.08	*	*	.01	.13	.08	.14	*	*	.01			
ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	2.00	*	*	.84	.07		*	*	.40				.05					.05	.03	*	*	.17		.07	.25	*	*	.07				
BERETANIA PUMPING STA	A	1.77	.08	*	.03	.47		.31	.07	.01									.02	.01	*	*	.89	.02	.15	T	.21	*	*	.17			
CAMP 84 807	A	1.27																	.01	*	*		.04	*	*								
CHURCH COLLEGE LAIE	A	5.12	.33	.61	.01			.19	.01	2.15		.05	.07	.03	.06		.22	*	.31	.07	.09	.13	.03	.03	.42	.75	.04	.58	.08	.05	.02		
COCOAUT ISLAND 840.1	A	4.81	*	*	.07			.04	.30	.08			.02				.01	.01	.10	.16	.12		.27	.06	.02	.11	.17	*	*	.08	.18		
EWA PLANTATION 741	A	1.27	*	*	.14			T		.23			.04	*	*	*	.11	*	*	.01	*	.49			.90	*	.52	*	*	.11			
HELEMANU INTAKE 881	A	6.05	*	*	.45	*		.06	*	.19	.06			*	*	*	.11	.05	*	*	*	*	*	*	.13		1.15	.85	.72	*			
HONOLULU 721.7	A	2.84	*	*	.35			.06	*	.19	.06			*	*	*	.11	.05	*	*	*	*	*	*	.13		1.15	.85	.72	*			
HONOLULU OBSERV 702.2	A	1.17	*	*	.70			.05															.69								.02		
HONOLULU WPCF 703	R	1.30	.01	.02			.09	.24					T	T			.02	T	.03	.69	.01		.01	.01	T	.17	T	T	T	T			
HONOLULU SUBSTA 704	A	1.93	*	*	.16		.01	.13		.12	.05			.12	.05		.01	.01	.01	.01	.81		.04	.05	.14								
H S P A EXP STA 707	A	1.99	.09	*	.01			.																									

HAWAII
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Station

Total

Day of Month

See reference notes following Station Index

Continued

HAWAII
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Continued

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAUMANA 88.1	12.83	1.78	1.92	.03	.07				1.85	.21	.20	.02	.38			1.05		.10	.07	.25	.56	.16	.14	.02	.12	.12	.16	.36	.63	.85	1.76		
KAWAUNUI LOWER 139	7.94						2.30							.92	*		*				1.82									2.90			
KEAUA 92	15.73	3.65	.36	1.16		.02	.07	.14	2.15	1.13	.32	.38	.05	.02	.12	.49	.30	.04	.36	1.41	.33	.82	.02	.17	.42	.12	.40	.67	.06	.24	.31		
KEALAKEA 26.2	9.32				.51	.40	.41			.02	2.36			1.02	.49	.06	T	1.77		.27	T	.08	.38	.05	.02	.32	.01	T	.08	.07			
KEHENA 181.2	5.49																											3.49					
KIOLAKAA A & F 6	4.33	*	*	*										*	*	*																4.33	
KIOLAKAA 24.4	13.64	1.88	1.30	.20	.26			.10	1.15	.07	.42	.14	.36		T	.61	.72	.04	.11	.32	1.09	.98	.04	.13	.24	.49	.08	.80	.84	.74	.53		
KOHALA 179.1	1.66																		.05	.01	.23				.17	.01					.07		
KOHALA MAULILI 176	2.65	*	*	1.70									.06		.02	*	.37			.09	*	*		.03	.11	.05	.14	.01					
KOHALA MISSION 175.1	1.74	.67	T				T	T			.04	T				.09	.04		.03	T	.15	T		.14	.37	.13	.03	T	.04	.01			
KOIAWE LOWER 196	4.07	*	*	*	*	1.65	*	*		.02	.01	.12		.50	*	*	*	*		.70	*	*	*	*	*	*	*	1.22	*	*	*		
KONA AIRPORT 68.3	.86	.11	T		.09	.25								.01					.02	*	*					.20				.03	*		
KONA VILLAGE 93.8	.35		.14	.15																							.18	.08					
KUKAIAU 222	1.05	.20	.01	T												.06	.03					.14		.10	.19	T	.08	.01	.06	.17			
KUKUIHAELE MIC 199	1.58	.32		.18			.08	.09					.04			.06	.13				.07		.15	.20	.05	.04			.08	.07			
KUKUIHAELE MILL 206	1.16	*	*	.25									.05			.12				.03	*	*	.23	.33	.05	.07	*	*	.03				
KUKULANI CAMP 79	6.85	*	.10	.52				.29	1.20	.20	.16	.03	*	*	.05					.10	.52	.39	.23	.18	.22	.49	.20	*	.25	1.72			
KUKULANI MAUKA 76	1.94	.25	.06	.10			.26	.47	.16	.02					.05					.02	.07			.23	.24	.11		.05	.83				
KUKULANI SCHOOL SITE 78	5.41	*	*	*	*		.39								1.62	*						1.30									2.10		
LANINAHU 68.2	10.21	.10	.22				.26	.58	1.17	.12		.30	.04			.22				1.49	2.65	.11	.12			.65			.08	2.10			
MAUKA 2	5.60	*	*	.04	.02	.35			1.74	T	.05	.19	T			T	.21			.02	*	*	.40	.04	.10	.06	1.02	*	1.41	T			
MAUKA KEA BEACH 98	.81	.09	.45	.05					.04		.05																		.04	T			
MAUKA LOD SLOPE DBS	4.46	1.01	.46	.51		.14	.44	.43	.04											.87			.03	T	.42	.01	.10						
MIDDLE HOUAUAO 88.1	1.48					.47					.08	.15		.17	.08				.12				.33		.06				.25	*			
MIDDLE PEN 147.1	1.44	*	*	*	*	*								.08								.21	*	*	*	*	*	*	*	*			
MOAUA 18	1.95	*	*	*	*	*								*	*	*																1.95	
MOUNTAIN VIEW 91	14.98	1.21	.13	.39	.10			.13	2.26	1.18	.56	.30	.32		.17	.72	.45	.02	.17	1.00	.47	.33	.01	.07	.34	.06	.10	.94	.36	1.38	1.82		
MOUNTAIN VIEW 91	14.98	1.21	.13	.39	.10	T			.08	.01	.56	.30	.32		.17	.72	.45	.02	.17	1.00	.47	.33	.01	.07	.34	.06	.10	.94	.36	1.38	1.82		
NAPAHU 28	8.07	.64			.10				.06	.11		.01	.30	.01			2.59			.03	.09	.92	.08	.09	.01		.06	.34			.20		
NAUULU FOREST 38.6	5.82	.03	*	.15				.05	.87	.01		.07		*	.05	.15				.59	*	*	.45	*	*	.66	*	.05	*	1.97			
NIULILI 179	1.71	*	*	.87						.05	.01					.05	.05		.05	.02	.38	*	*	.18	.37	.26	.05	*	*		.20		
OKAKA 223	2.41	.84	.01		.10		.02	.04			.05	.01		.15	.01		.04		.01	.26		.12	.20	.10	.03	.05		.09	.38				
OPINIMALE 2 24.1	8.17		.17	.06	.50	.01			1.34		.01	.13	.05	T	T		2.28	.15	.45	T	.15	1.54	13	.24	.29	.14	.46	.07					
ORCHIO LAND EST 91.5	16.05	*	*	*		7.28								3.02	*					2.64			.22	.01	.14	.24	.01			.07	.02		
PAAUHAU 217	1.05	.17				.01					.02				.13	.01				.22	.01		.14	.24	.01				.07	.02			
PAAUHAU 221	.85	.21	T	T				.01	.10	T					.03	.03					.12		.19	.20	.01			.06	.06				
PANALA 21	2.59	.02	.11	.09																.02	.13		.07	.54	.02	.43	.01			.23			
PANAPA 37	19.57	4.31	.49	1.35	.03	.17	.19	.24	3.79	1.99	.25	.75	.18	.04	.12	.52	.31	.10	.25	.48	.30	.89	.02	.19	.15	.05	.55	.99	.09	.35	.45		
PAPAIAUO 144.1	12.10																														12.10		
PAPAIAUO 144.1	12.40	3.31	.69	.08			.02	.35	1.45	.10	.45	.18	.13	.02	.03	1.01	.10	.23	.46	.46	.13	.11	.40	.46	.37	.24	.45		.50	.44	.05		
PAPAIAUO MAUKA 140.1	14.07	3.74	.62	.18	.02	.02	.03	.73	.02	.86	.32	.47	.01	.01	.94	.30	.11	.40	.96	.33	.05	.08	.57	.44	.30	.38	.61	1.24	.41				
PEPEKEO MAKAI 144	10.10	2.80	.53	.04	.02		.07	.96	.33	.02	.45	.38	.03			.35	.10		.08	.12	.40	.10	.01	.07	.87	.17	.94	.30	.81	.39	.14		
PITIMONUA 89	3.99	*	*	.82	*	*	*			2.00		.02							.08					.69	*	*	*	*	*		.46		
PONAKULA 107	.88	.10			.09					.08												.19		.20		.16			.01	.24			
PUAOK 95.1																																	
PUU KIME 120	2.79	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.79	
PUU LAU 102.1	2.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.65	
PUU LENUA 73	4.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.50	
PUU MALI 113	2.77	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.77	
PUUKUMAU 167	2.32	*	*	1.29	.37						.05	.01	*	.35						.01	*			.01	.11	.06		.01			.05		
PUU OO 82	4.88	.27	.15	.03			.09	.65	.10	.15	.03	.07		.27		.03			.10	.23	.65	.11	.05	.28	.09	.05	.15	.05	.13	.76			
PUU WAHAA 94.1	1.83	*	.62	.46	.48	*		.27	1.43	.43	*			.24		.03					.74	.09				.05	.33	.52	*	.15			
SADOLE ROAD 1 84	10.30					1.95								2.85	*				2.40	*	*												
SOUTH POINT CORRAL 3	.74	*	*	.23	*	*		.03	*	*	*	*	*	2.85	*		.10						.17	*					.21	*	*		
UHIKOA 118	1.40	.10	.77	.02			.03												.05				.02	.20	.07	.06	*		.06	.02			
UPULU POINT USCO 159.2	.92	.12									.06	.17					.02									.15	.40						
WAIKAE SCD 88.2	14.81	2.31	2.60				.17	2.16	.39	.36	.08	.24		.85	.16	.20	.52	.04	.44	.08	.13	T	.25	.30	.11	.43	.21	.71	2.02				

Station	Wind (Speed - m.p.h.)						Relative humidity averages percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset									
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150th MERIDIAN TIME				Trace	01-09	10-49	50-99	100-199	200 and over	Total										
							2 AM 8 AM 2 PM 8 PM																				
HILO, HAWAII, WB AIRPORT	18	1.0	5.4	17	E	30+	91	81	73	88	2	5	15	1	3	0	26	41									
HONOLULU, OAHU, WBFC	5	9.8	11.4	25	NE	17+	78	70	55	71	8	8	2	1	0	0	19	78									
KAHULUI, MAUI, WB AIRPORT	5	9.8	11.3	31	NE	13	83	72	55	75	2	6	1	0	0	0	9	78									
LIHUE, KAUAI, WB AIRPORT	6	8.1	9.7	19	NE	24	77	74	66	74	2	9	7	0	1	0	19	71									

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ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	77 64	78 59	77 59	76 53	80 52	78 52	72 50	78 51	69 55	76 59	74 59	79 57	80 62	80 60	78 55	79 52	80 54	78 58	75 60	75 60	77 54	79 49	73 56	75 60	73 51	76 53	76 55	73 55	72 50	72 49	76.2 55.4	
KILAUEA POINT 1133	MAX MIN	85 74	86 75	87 77	87 76	90 74	89 74	89 77	87 67	89 68	86 69	87 74	87 76	89 73	87 76	88 76	87 76	89 74	89 73	87 74	88 75	86 75	88 74	87 73	84 72	87 74	85 73	85 75	88 74	88 74	88 72	87.3 73.8	
LIHUE WB AP 1020.1	MAX MIN	85 74	85 70	84 72	84 77	85 76	84 72	85 72	85 75	80 70	85 77	84 77	85 74	85 75	84 74	84 76	84 75	84 74	84 74	83 72	83 75	84 75	71 71	72 72	84 74	83 71	83 75	84 74	83 71	84 71	85 65	83.9 73.4	
MAKAHUEA POINT 940.1	MAX MIN		86 75	89 75	87 76	88 78	87 74	87 70	88 78	88 72	85 77	87 77	88 75	88 76	88 74	86 74	87 77	86 78	87 77	88 74	87 76	88 75	88 74	87 74	88 74	88 74	87 73	88 74	87 73	88 74	88 74	87.4 75.0	
HANA 1026	MAX MIN	90 69	91 70	92 71	92 71	88 69	91 70	90 71	89 70	89 70	89 70	89 71	89 70	90 73	90 70	91 70	88 70	88 72	89 69	92 73	89 68	87 72	89 70	89 68	91 70	89 68	90 68	88 68	90 67	90 67	89 67	89.7 69.7	
NIU RIDGE 1035	MAX MIN	87 65	88 66	86 64	86 66	87 65	86 65	86 65	85 65	83 65	82 65	85 64	86 65	86 66	85 64	84 64	85 65	86 66	87 66	87 66	86 65	86 65	85 66	85 64	83 65	82 63	84 64	84 65	85 66	85 65	85.2 65.0		
WAIHI LOWER 1054	MAX MIN	84 66	84 64	86 66	82 64	84 64	85 65	86 65	89 67	80 67	84 69	85 69	85 68	84 67	82 68	80 65	80 67	85 68	85 67	83 68	83 66	85 68	85 67	86 69	82 64	83 63	83 66	82 66	83 66	84 66	84 61	83.8 66.1	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	88 74	87 70	88 73	90 69	90 69	90 70	88 71	88 70	86 70	90 72	90 71	90 73	90 71	90 71	91 74	89 73	90 71	90 73	88 70	88 69	88 70	89 68	89 70	89 72	89 70	85 72	88 69	87 70	86 67	85 68	88.5 70.7	
HONOLULU WBFC 703	MAX MIN	88 76	88 72	88 76	92 73	90 75	91 74	90 72	90 74	91 74	91 76	91 74	91 76	88 73	87 74	88 78	87 77	91 76	91 76	91 74	91 73	90 74	91 73	89 73	89 75	91 74	85 74	90 74	89 76	91 71	87 70	89.6 74.3	
HONOLULU SUBSTA 704	MAX MIN	86 77	86 76	84 77	87 75	85 76	85 75	86 72	85 76	85 76	85 78	86 78	85 76	86 78	86 78	86 78	87 77	86 78	86 76	86 75	85 73	86 75	85 76	84 77	85 77	84 76	85 76	85 76	84 76	83 73	83 73	85.3 76.0	
KAHUKU 912	MAX MIN		90 79	89 79	90 73	89 78	87 78				89 70	89 73	88 75	87 75	85 75		85 75	86 73	86 73	86 74	86 74			86 74	86 74	86 74	86 74	85 74	86 73		87 70	87.0 74.5	
KANEHUE MAUKA 781	MAX MIN	84 67	85 68	83 68	85 74	85 74	85 74	86 74	84 72	85 73	85 75	84 75	85 74	86 75	85 75	85 76	85 76	86 74	86 74	85 73	85 71	85 73	85 73	85 73	85 73	83 73	83 73	84 71	84 69	85 70	84.7 73.0		
LUALUALEI 804	MAX MIN				93 71	91 72	92 74				91 71	87 73	90 73	90 76	88 78		90 76	90 73	90 74	90 74	90 72			91 72	89 75	89 71	89 75	89 73			89 68	89.0 74.8	
MAKAPUU POINT 724	MAX MIN	82 75	90 75	87 76	81 72	89 78	84 75	84 72	88 75	84 76	81 75	83 76	82 74	83 75	82 75	82 75	82 75	83 75	83 75	83 75	83 75	83 75	83 75	83 75	83 75	83 75	83 75	83 75	83 75	83 75	84.5 74.7		
OPAELUA 870	MAX MIN	87 66	85 66	86 66	84 69	84 66	84 66	87 67	87 67	86 67	82 67	84 67	86 67	85 67	84 70	85 70	85 69	86 70	85 68	85 68	85 68	87 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	85.2 67.1		
PRI WAIHANA 820.2	MAX MIN			91 66	86 66	86 66	86 66	90 68	90 68	88 68	88 69	89 66	89 66	90 71	88 72	88 70	89 69	89 70	89 69	88 68	88 67	88 70	90 66	90 65	87 67	88 67	88 66	88 66	86 66	84 65	87.0 68.0		
WAIALUA 847	MAX MIN	87 67	84 72	88 69	88 67	91 66	90 66	90 68	88 71	88 69	87 67	88 67	90 67	88 69	89 70	88 70	88 72	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88.4 67.8		
WAIKIKI 717.2	MAX MIN	89 76	90 73	91 75	90 71	91 73	89 72	91 73	90 74	91 71	89 76	88 76	89 76	90 76	89 78	89 78	89 76	89 75	89 74	89 74	89 74	89 74	89 74	89 74	89 74	89 74	89 74	89 74	89 74	89 74	89.3 74.2		
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	83 75	89 72	86 75	87 70	87 70	85 72	86 70	87 77	88 73	87 75	87 75	86 74	87 73	87 74	87 74	86 74	87 74	85 74	86 71	86 73	86 73	85 77	85 73	87 73	86 75	85 73	81 73	85 73	86 76	87 71	86.1 73.4	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	82 65	83 64	81 66	82 64	78 65	81 64	80 68	80 69	80 69	80 68	79 69	82 68	80 69	79 68	80 66	79 67	77 67	80 69	82 68	81 67	81 66	78 66	79 66	78 67	78 66	78 66	77 68	80 67	82 66	79.9 66.9		
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	68 52	67 49	66 48	66 48	68 52	69 48	65 45	66 46	67 45	65 46	66 46	65 47	71 50	66 50	68 53	68 53	71 52	67 45	66 47	64 47	65 48	66 43	65 48	64 50	63 47	63 49	67 48	67 50	63 43	61 44	66.1 48.0	
HALEAKALA SUMMIT 338.4	MAX MIN	63 39	56 42	56 44	58 44	57 41	60 40	62 39	57 41	57 45	56 46	61 48	63 48	59 43	57 43	56 48	56 43	57 43	52 38	55 40	55 42	53 42	52 40	55 39	53 41	50 42	55 41	55 42	54 42	55 39	54 40	56.5 42.0	
HANA AIRPORT 355	MAX MIN	84 70	86 72	87 74	87 68	86 70	86 70	86 73	87 71	86 71	86 72	86 70	86 69	86 70	86 69	86 73	86 72	86 70	86 70	86 69	86 69	86 70	86 69	86 69	86 71	86 71	86 72	86 68	86 68	86 67	86 68	85.9 70.3	
KAAHAPALI AIRPORT	MAX MIN	87 74	91 67	86 73	87 72	89 70	88 73	86 78	88 79	89 81	87 73	89 72	88 71	87 70	91 77	89 77	88 71	88 71	88 71	88 71	88 71	88 71	88 71	88 71	88 71	88 71	88 71	88 71	88 71	88 71	88 71	88.2 71.6	
KAHULUI WB AP 398	MAX MIN	95 72	91 72	92 72	92 72	89 70	89 67	89 68	91 72	90 68	91 72	91 72	89 73	91 70	89 70	90 70	92 67	88 71	88 71	91 73	90 73	92 72	89 69	89 73	89 73	88 69	88 73	91 72	90 73	91 73	91 66	90.4 69.3	
KAILUA 446	MAX MIN	79 69	83 68	82 72	83 72	81 69	81 69	84 70	83 70	83 69	82 70	82 69	81 69	82 70	82 69	82 70	81 70	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68				

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WAILUKU 392		84 73	92 72	89 72	90 73	88 74	88 74	88 74	88 72	91 74	88 74	89 75	89 75	88 75	88 75	88 75	89 74	89 74	88 73	88 74	88 74	88 73	88 72	88 72	87 74	87 72	87 72	88 72	86 72	88 68	88.2 73.2		
* * *																																	
ISLAND OF HAWAII	MAX MIN																																
HAINA 214	MAX MIN	83 66	87 70	87 69	85 65	86 65	87 68	85 65	87 66	86 67	86 70	87 67	87 67	85 69	87 68	84 70	86 68	86 65	87 67	87 66	87 65	83 66	86 56	86 58	85 59	85 51	85 52	83 55	86 70	85 69	84 57	85.7 66.9	
HAWAII VOLCNS NP HO 54	MAX MIN	74 55	74 57	74 59	73 59	73 55	72 57	73 57	70 57	69 57	71 57	71 60	68 57	74 57	75 57	74 59	73 56	73 56	72 57	71 58	74 57	71 57	70 56	71 58	73 59	68 51	74 52	70 55	70 55	69 57	69 52	71.8 56.5	
HILO WB AIRPORT 87	MAX MIN	85 70	81 70	86 70	85 67	85 67	85 68	80 70	84 68	85 69	84 72	86 71	87 69	85 68	83 70	85 71	88 70	85 68	86 68	85 70	85 70	85 71	85 67	86 69	85 70	86 67	86 70	85 67	81 70	84 67	86 67	84.5 69.1	
KAINALIU 73.2	MAX MIN	85 67	81 66	81 68	83 67	83 68	80 70	81 68	80 66	79 65	82 66	79 65	81 67	80 67	82 65	83 67	83 66	82 65	83 67	84 65	82 67	80 67	79 67	80 68	81 65	80 65	81 65	79 65	81 65	80 68	83 68	81.3 66.3	
KAMUELA 192.2	MAX MIN	77 60	82 60	81 60	78 58	79 56	79 60	80 60	79 56	76 60	77 61	76 60	77 60	80 61	78 60	74 58	76 58	76 61	76 61	77 59	76 58	76 58	78 58	75 59	76 60	76 56	80 56	78 58	75 60	75 57	80 54	77.5 58.7	
KAMUELA AIRPORT 191	MAX MIN	80 51	81 51	82 60	79 52	77 51	77 54	78 56	80 54	76 52	79 60	78 52	78 51	79 59	78 58	75 55	79 54	78 52	78 52	78 57	78 57	78 59	80 59	78 60	77 64	78 63	76 58	77 51	76 59	78 51	78 64	78.1 56.1	
KEAAU 92	MAX MIN	84 65	84 65	84 65	85 67	82 65	86 67	87 65	87 67	87 67	85 69	87 68	87 68	88 67	87 67	87 67	87 67	88 67	87 67	86 67	86 67	86 67	86 67	86 67	86 67	87 68	86 67	87 66	87 66	87 67	87 67	86.1 66.8	
KEALAKEUA 26.2	MAX MIN	81 67	82 66	83 68	83 66	81 66	82 65	81 65	82 65	82 67	78 69	82 65	81 67	82 67	82 65	82 65	82 68	83 66	81 66	79 66	81 65	80 67	80 67	81 65	80 65	80 65	80 66	80 66	82 68	83 65	80 65	82 65	81.3 66.2
KOHALA MISSION 175.1	MAX MIN	80 69	83 70	83 70	84 71	83 70	85 71	85 70	85 71	83 71	84 72	85 72	85 71	83 71	83 71	83 71	84 72	84 68	84 69	85 70	83 69	83 69	85 71	85 69	84 70	84 68	82 69	84 71	83 69	83 67	85 68	83.8 70.0	
KONA AIRPORT 68.3	MAX MIN	85 68	85 68	87 69	86 69	87 69	86 69	87 69	87 69	88 69	87 69	87 66	87 66	88 66	87 65	88 69	88 65	87 69	88 68	87 68	87 68	88 68	87 68	88 68	85 68	85 68	85 68	85 68	86 68	86 68	86 68	86.8 67.3	
KULANI CAMP 79	MAX MIN	71 51	72 52	70 52	69 49	69 47	68 67	70 50	62 48	65 49	65 55	66 55	66 55	64 48	70 47	68 47	68 46	69 46	67 46	68 46	68 46	68 46	68 46	68 46	68 46	67 47	71 49	69 48	68 49	67 49	67.9 49.2		
MAUNA KEA BEACH 98	MAX MIN	88 73	88 73	87 75	88 73	89 73	88 73	88 73	88 72	87 73	88 77	89 74	87 74	89 74	92 74	98 73	88 76	88 75	89 77	90 75	88 73	88 73	88 75	88 76	88 76	88 74	89 75	89 74	89 75	88 72	88 73	88.5 74.1	
MAUNA LOA SLOPE OBS	MAX MIN	52 37	47 36	51 37	54 36	55 35	52 36	49 38	50 39	53 37	54 39	57 40	57 34	57 38	57 39	54 39	51 36	54 32	57 37	53 37	53 38	52 35	56 38	56 38	56 38	56 35	52 36	53 36	52 36	48 36	53.4 36.9		
MOUNTAIN VIEW 91	MAX MIN	83 66	79 62	79 62	82 60	82 60	80 60	82 62	76 62	80 63	80 64	79 65	81 62	83 62	82 66	77 65	82 62	82 62	82 62	81 65	79 65	80 61	82 64	82 65	81 63	81 61	81 61	83 60	74 60	80 61	78 64	79.9 62.7	
NAALEHU 14	MAX MIN	85 69	85 67	86 67	84 70	85 70	85 70	85 70	85 70	85 70	85 72	85 72	85 70	84 71	84 71	85 69	85 69	86 71	86 72	85 69	85 69	85 69	85 68	84 68	84 69	84 70	86 71	82 70	83 69	84 69	84.6 69.7		
OOKALA 223	MAX MIN	82 66	84 71	82 72	83 72	84 73	84 72	85 72	85 72	85 71	85 70	85 71	85 71	83 72	85 71	85 71	85 74	85 73	85 69	85 70	85 70	85 70	83 70	85 70	85 73	84 73	85 72	81 73	85 72	83 68	84.2 70.7		
OPIHIHOLE 2 24.1	MAX MIN	83 64	84 66	83 65	81 65	81 63	84 64	84 63	81 64	84 69	84 64	82 67	77 65	83 65	83 66	85 66	87 65	82 65	78 62	81 63	79 64	77 65	79 63	81 65	78 65	77 64	77 64	79 62	81 62	82 62	79 63	81.4 64.3	
PAHALA 21	MAX MIN	84 68	85 68	82 66	82 64	84 64	85 65	85 64	84 70	83 65	82 66	84 67	80 65	83 65	85 68	85 66	85 65	85 67	85 67	84 67	84 70	83 65	83 65	82 66	82 66	80 63	85 64	80 64	83 64	82 64	83 64	83.4 65.8	
UPOLU POINT USCG 159.2	MAX MIN	84 72	88 72	89 71	87 71	87 73	87 73	87 72	89 72	89 72	87 75	87 74	87 70	87 75	87 73	82 78	87 74	87 74	85 73	86 74	85 74	86 74	87 73	87 72	85 72	86 70	86 72	86 73	85 71	85 71	87 73	86.5 72.9	

EVAPORATION AND WIND

HAWAII
SEPTEMBER 1968

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP WIND MAX MIN	.31 185 93 72	.32 97 95 72	.22 62 94 72	.22 78 92 72	.42 156 95 73	.38 106 95 72	.23 91 95 72	.45 130 96 74	.31 135 93 71	.14 129 85 71	*	.69 266 94 73	.33 146 94 74	.28 130 95 74	.38 144 95 74	.29 151 96 74	.30 132 96 74	.31 137 95 73	.33 130 94 73	.33 136 94 73	.34 132 94 74	.24 99 95 71	.36 114 94 73	.29 94 92 72	.28 140 92 72	.32 129 93 73	.19 133 87 73	.34 141 93 71	.30 126 93 68	9.20 374.2 93.4 72.4		
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP WIND MAX MIN	.27 40 93 73	.28 23 100 74	.22 19 97 75	.19 13 100 73	.34 30 98 71	.28 29 94 71	.23 24 96 72	.23 27 96 73	.23 23 93 72	.23 32 93 72	.34 38 95 73	.27 29 94 74	.27 36 93 72	.36 51 97 72	.37 45 97 73	.45 47 97 73	.30 38 99 73	.30 35 95 73	.30 28 95 74	.27 30 95 73	.20 32 93 71	.30 25 95 71	.17 29 94 72	.30 30 96 71	.26 37 96 71	.22 32 92 69	.08 20 86 69	.30 34 95 69	.19 31 90 70	.22 25 93 71	7.97 935 94.9 72.2	
* * * ISLAND OF HAWAII																																	
HILO WB AIRPORT 87	EVAP WIND MAX MIN	.12 48 88 68	.03 42 90 69	.20 49 89 70	.28 34 92 67	.28 50 92 67	.15 35 89 68	.04 30 78 69	.08 30 82 68	.19 56 90 69	.18 46 85 70	.16 55 88 69	.25 36 93 69	.28 41 93 68	.09 32 88 68	.14 47 87 71	.24 49 89 70	.31 69 93 66	.22 52 92 67	.22 50 92 69	.18 60 90 70	.15 51 90 70	.24 42 92 68	.14 44 88 69	.09 36 90 69	*	*	.41 40 87 70	.04 59 86 70	.23 60 89 67	5.118 1317 88.8 68.8		

See Reference Notes Following Station Index

HAWAII
SEPTEMBER 1961

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STATION INDEX

HAWAII
SEPTEMBER 1968

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES					OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL		
												FEEL		WIND	REL. HUMID.
ISLAND OF HAWAII													
MOAULA 18	A 6407	03 KAU		3 19 11	155 30	600		MO					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	A 6552	02 PUNA		2 19 33	155 07	1530	6A	6A					PUNA SUGAR CO
NAALEHU 14	A 6588	03 KAU		3 19 04	155 35	673	8A	8A					HUTCHINSON SUGAR CO
NAPOOPOO 28	A 6687	04 S KONA		19 28	155 55	396		7A					KONA EXPERIMENT STA
NAULU FOREST 38.6	A 6731	02 PUNA		2 19 19	155 08	1400		VAR					HAWAII VOLCANOES NAT PK
NIULII 179	A 6806	01 N KOHALA		12 04	155 45	75		6A					KOHALA SUGAR CO
OKALA 223	A 7131	02 S MILO		2 20 01	155 17	430	7A	7A					LAURAHENDOE SUGAR CO
OPINIHALE 2 24.1	A 7168	04 S KONA		4 19 16	155 53	1270	7A	7A					MISS C. LEONARD
ORCHID LAND EST 91.5	A 7185	02 PUNA		2 19 34	155 00	445		VAR					BOARD OF WATER SUPPLY
PAUHAU 217	A 7204	01 HAMAKUA		1 20 05	155 26	415	7A	7A					PRAMUHI SUGAR CO
ISLAND OF HAWAII													
PUU KIME 120	A 8393	01 HAMAKUA		1 19 54	155 24	7750		MO					KUKAIUA RANCH CO
PUU LAU 102.1	A 8452	05 HAMAKUA		5 19 50	155 36	7440		MO					STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04 N KONA		19 34	155 49	4880		MO					GREENWELL RANCH
PUU MALI 113	A 8519	01 HAMAKUA		1 19 55	155 26	6960		MO					KUKAIUA RANCH CO
PUUKUMAU 167	A 8548	01 N KOHALA		1 20 12	155 50	1800		7A					KOHALA DITCH CO LTD
PUU OO 82	A 8550	02 S MILO		2 19 44	155 23	6240		6A					W. W. CHIPMAN, LTD
PUU WAAMAA 94.1	A 8555	05 N KONA		5 19 47	155 51	2520		7A					DILLINGHAM RANCH INC
SADOLE ROAD 1 84	A 8590	02 S MILO		2 19 42	155 12	2340		WM					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03 KAU		3 18 57	155 41	400		W					HUTCHINSON SUGAR CO
S POINT TRACKING STA	A 8679	03 KAU		3 18 57	155 41	305							FEDERAL ELECTRIC CORP
ISLAND OF HAWAII													
UMIKOA 118	A 8780	01 HAMAKUA		1 19 59	155 23	3420		7A					KUKAIUA RANCH CO
UPOLU POINT USCG 159.2	A 8830	01 N KOHALA		1 20 15	155 53	61		6A	8A				U S COAST GUARD
WAIKAE SCD 84.2	A 9025	02 S MILO		2 19 40	155 08	1050		7A					SHINICHI FANESHIRO
WAIKANGULA 178.6	A 9350	01 N KOHALA		1 20 08	155 47	3930							KANOA RANCH

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Service Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS: For all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- And also on an earlier date or dates.
- ++ Highest observed one minute wind speed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shows following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index". Indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for time of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gages.
- T Trace, an amount too small to measure.
- V Includes trace for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

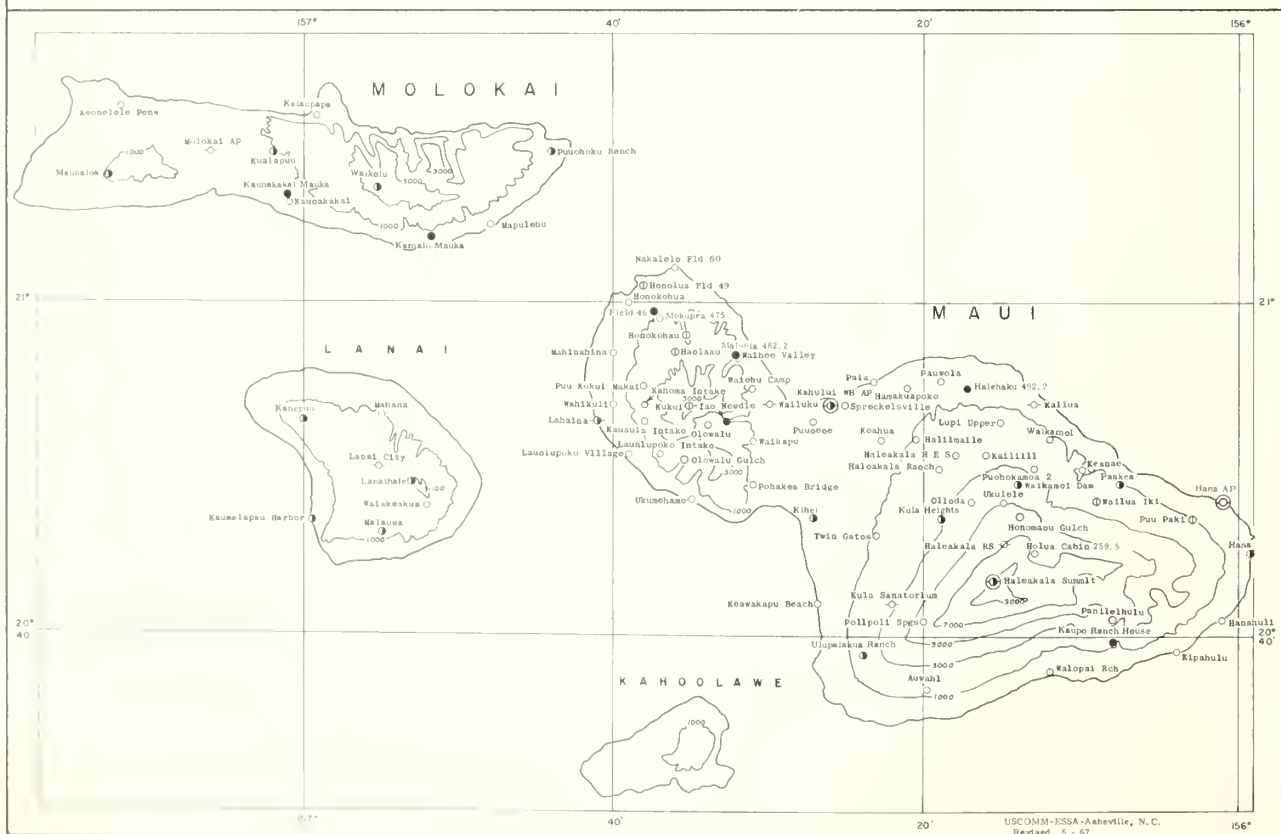
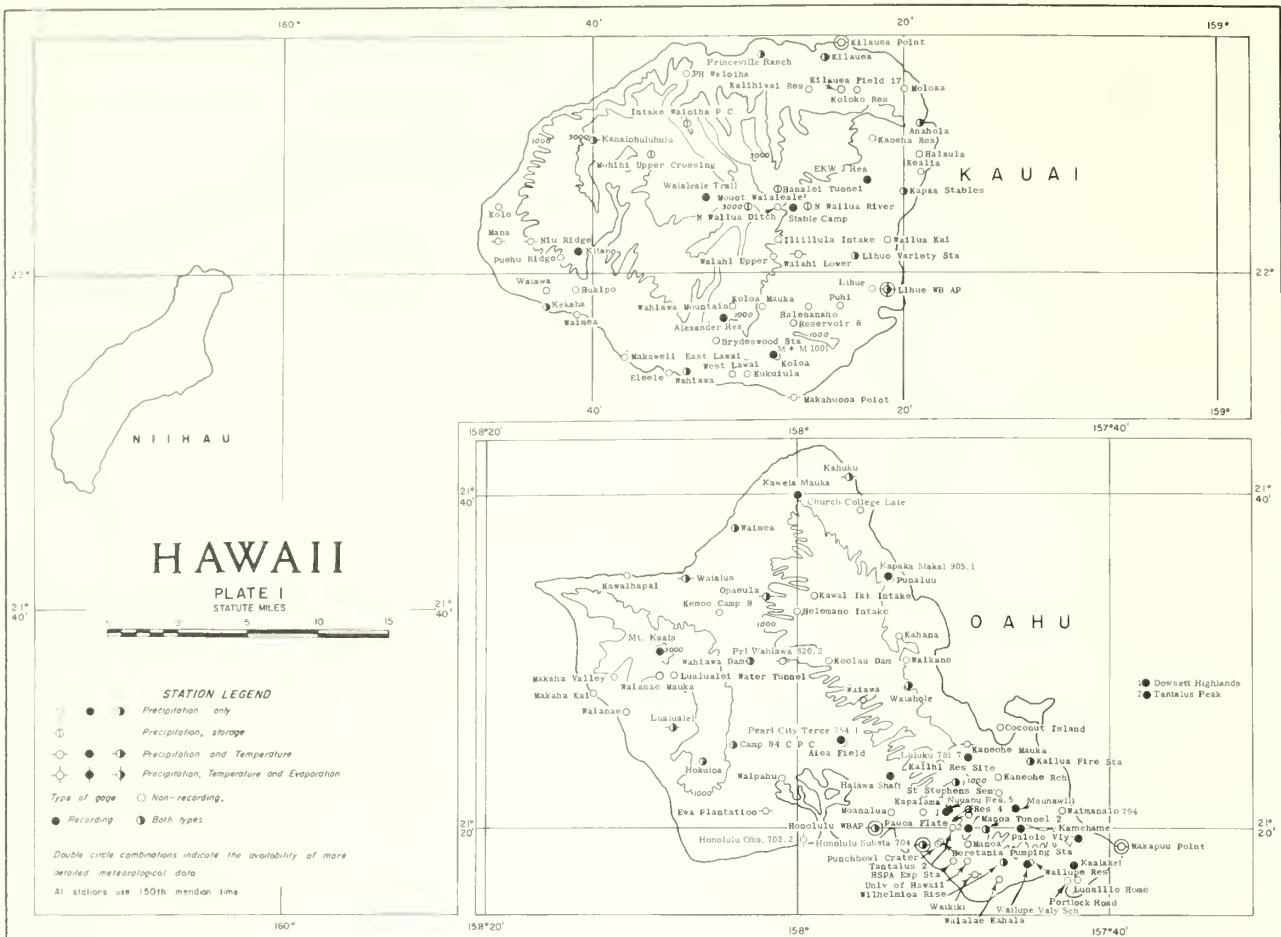
- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletins they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- * Thermometers are generally exposed in a shelter located a few feet above and covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

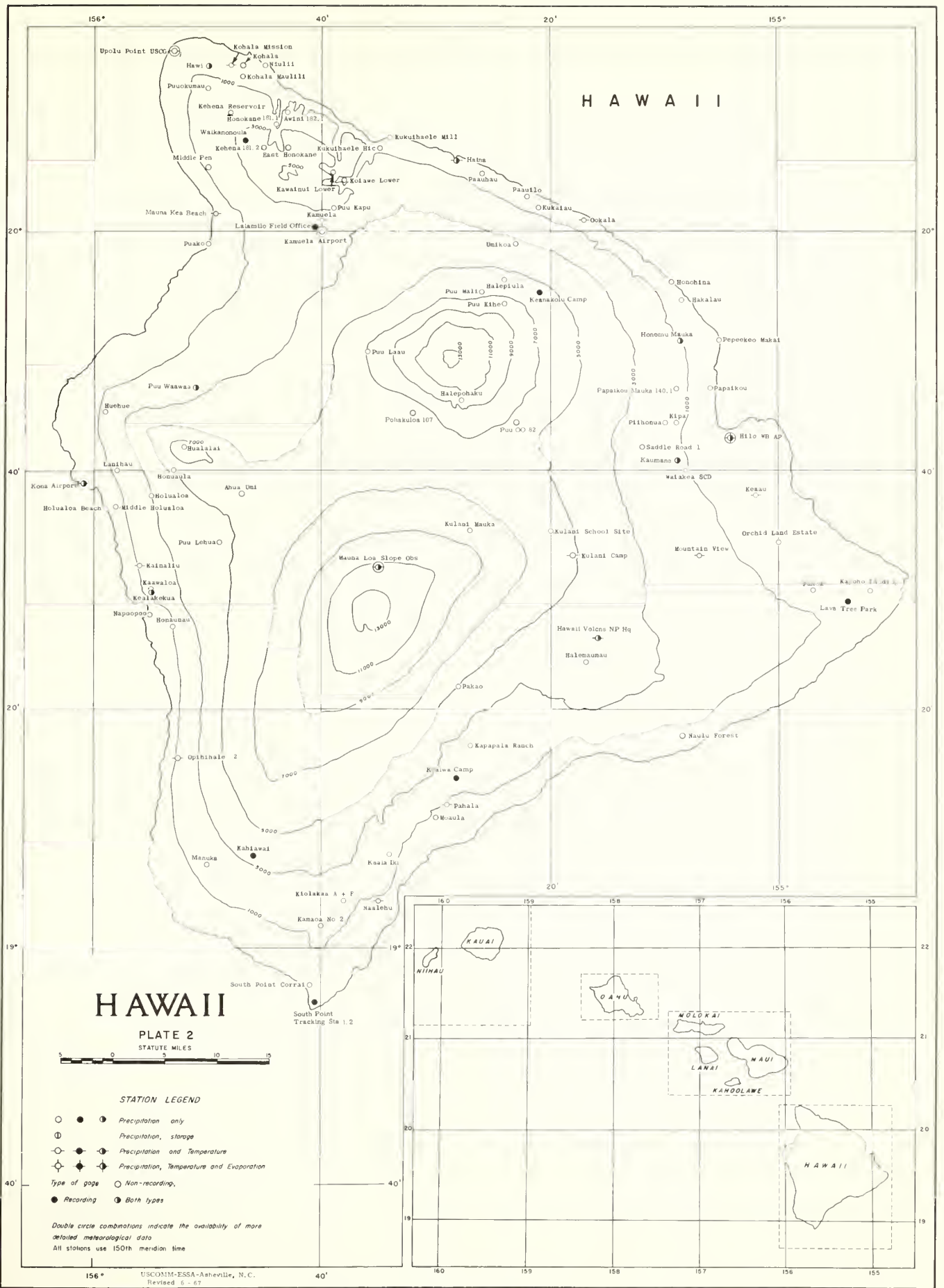
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substation through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.





See Reference Notes Following Station Index
SPECIAL WEATHER SUMMARY ON PAGE 125

CLIMATOLOGICAL DATA

HAWAII
OCTOBER 1968

Continued

Station		Temperature										Precipitation											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										50° or Above	32° or Below	32° or Below	0° or Below										
KEAAU 92		86.5	66.9	76.7	2.3	89	16+	64	25+	0	0	0	0	5.62	- 6.76	1.68	11	.0	0		10	4	2
KEALAKEKUA 26.2		81.9	66.0	74.0		86	12	63	26	0	0	0	0	3.19		.86	13	.0	0		8	1	0
KONA AIRPORT 68.3		86.3M	67.6M	77.0M		88	2	66	7+	0	0	0	0	3.21		2.50	4	.0	0		3	1	1
KUKUIHAELE HIC 199														1.60	- 4.34	.48	23	.0	0		5	0	0
KULANI CAMP 79		68.9M	48.7M	58.8M		75	12	40	27+	0	0	0	0	7.40		1.48	20	.0	0		9	5	3
MAUNA KEA BEACH 98		88.6	72.5	80.6		96	22+	67	26	7	0	0	0	.65		.41	23	.0	0		2	0	0
PAHALA 21		82.7	65.4	74.1	.9	85	22+	62	23	0	0	0	0	11.15	7.14	4.78	4	.0	0		8	4	3
POHAKULOA 107														.73				.0	0				
PUAKO 95.1														.45		.18	4	.0	0		3	0	0
PUU WAAWAA 94.1														9.07	6.19	4.30	4	.0	0			4	3
UMIKOA 118														2.37	- 2.58	1.11	3	.0	0		4	2	1
WAIKAE SC0 88.2														9.38		2.38	11	.0	0		11	5	3
ISLAND				72.4										4.37				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 96° ON 22+ AT MAUNA KEA BEACH 98, HAWAII
 LOWEST TEMPERATURE: 33° ON 25+ AT MAUNA LOA SLOPE OBS, HAWAII
 GREATEST TOTAL PRECIPITATION: 19.96 INCHES AT WAIKAE UPPER 1052, KAUAI
 LEAST TOTAL PRECIPITATION: .32 INCH AT KONA VILLAGE 93.8, HAWAII
 GREATEST ONE-DAY PRECIPITATION: 6.70 INCHES ON THE 2D AT
 KANEHA RESERVOIR 1092, KAUAI

SPECIAL WEATHER SUMMARY

The month was characterized by a number of important weather situations: a destructive flash flood, a damaging volcanic haze, numerous thunderstorms, light winds and the absence of the trades, the persistence of high temperatures on all islands and of dry weather in the northeast sections of Hawaii Island.

The most destructive weather event of the month was a severe flash flood triggered by intense thunderstorms over the upper slopes of Hualalai Mountain (elevation 8271 feet). Torrents of water carrying boulders, mud, trees, and other debris cascaded down the mountain sides and through the Holualoa-Kamalumalu area of North Kona on the Island of Hawaii shortly before 3 p.m. on the 3d, ripping huge chunks of pavement and shoulder from Hualalai and Holualoa Roads, Kuakini Highway, and Alii Drive, and destroying bridges, culverts, and a pipeline. About 40 homes, business establishments, 4 autos, and personal coffee plantings were seriously damaged. Floodwaters ruined expensive machinery at a factory in Kona and washed through a hotel lobby and swimming pool, depositing mud and debris. U. S. Army Corps of Engineers damage estimates totalled \$774,000, of which approximately \$218,600 were for public property, \$220,400 for private property, and about \$310,000 to irrigation facilities, fences, roads, and pastures.

Kona Airport, about 7 miles distant from the presumed storm center, registered 1.70 inches of rain between 3 and 4 p.m., while 24-hour totals ran up to 6.6 inches at a gage at the 1200-foot elevation near Holualoa. Flash floods hit the same area again the very next day, on the afternoon of the 4th, but did little additional damage.

Heavy rains also fell during the 1st and 2d on Kauai and on northern and western Oahu, as warm moist air converged ahead of a stationary cold front west of Kauai. Several gages on Kauai received their greatest 24-hour October rainfall of record, but little damage appears to have been done. Maximum 24-hour amounts ranged from 3 to 6 inches on Kauai and exceeded 3 inches on Oahu.

The most curious occurrence of the month, and one not entirely meteorological, was the envelopment of the islands in volcanic haze from an eruption of Kilauea Volcano's upper Puna rift zone on Hawaii Island. Southerly winds swept the volcanic effluent northward over the island chain, reducing visibilities to as low as 2 miles at Honolulu Airport on the morning of the 10th. Sulfur dioxide fumes did an estimated \$118,000 worth of damage to leafy vegetable crops in the Volcano Farm Lots' area. A change in wind

direction dissipated the haze rather rapidly on the following day.

Light winds and intense local heating resulted in continued warm weather and a rash of thunderstorms on all islands. Honolulu Airport recorded 5 thunderstorm days, as against an average of only 1 for October. Lightning struck 2 powerlines near Waipahu at 1:50 p.m. on the 8th, interrupting electric power to large portions of Oahu, including parts of Honolulu, for a short period. At about 3 p.m. on the 16th, lightning struck powerlines in a section of Aiea, Oahu.

Temperatures were above normal at all Weather Bureau airport stations except Lihue, whose above-normal rainfall kept daytime temperatures down. Downtown Honolulu's (Honolulu Substation) mean of 80.1° was the highest in any October since records began there in 1904 and the third highest of record in any month. Rainfall over the State was reversed from the normal trade wind patterns, with the normally drier leeward areas receiving amounts well above normal and the wetter windward areas receiving amounts considerably below normal. The southwest coast of Kauai was extremely wet with some gages reporting 3 to 4 times their October means. Despite the flooding rains in Hawaii's north Kona district, the Kohala and Hamakua coasts of that island continued the protracted dry weather which began in May of this year. Restrictions on burning were imposed in the area.

Funnel clouds were observed on 3 days during the month. At 3:09 p.m. on the 2d, a pilot reported a waterspout about 3 miles west of McGregor Point, Maui, moving westward. On the 4th, Wheeler Field reported 2 funnel clouds, the first at 11:56 a.m. to the east and moving westward, and the second at 11:58 a.m. to the south. Each lasted only about 2 minutes. These funnels were associated with northward moving thunderstorms to the east and south and with occasional cloud to ground lightning. Heavy thunderstorms broke over Wheeler Field at about 12:30 p.m. On the afternoon of the 22d, Wheeler Field again observed 2 funnel clouds. The first, described as stationary, noiseless and rotating in a counter-clockwise direction, was observed about 3 miles to the northeast at 1:35 p.m. and appears to have been associated with a dense column of smoke from a cane fire. The second funnel, very thin, white and rotating counter-clockwise, was seen 2 miles north of Wheeler at 1:37 p.m. and extended to within 500 to 800 feet of the ground from a cloud base at about 2,100 feet. The funnels on the 22d were associated with towering cumulus clouds, but very little rain.

H A W A I I - O C T O B E R 1 9 6 8

SPECIAL WEATHER SUMMARY - CONTINUED

Stations With More Rain in October 1968 than in Any
Previous October

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest October Total	October 1968
KAUAI			
Eleele	67	6.92 inches	9.10 inches
Hukipo	27	6.50	9.79
Makaweli	76	7.00	7.85
Puehu Ridge	28	7.20	8.60
Waimea	55	6.71	8.50

HAWAII

Holualoa	39	19.02	20.60
Holualoa Beach	47	6.98	8.16
Middle Holualoa	25	7.46	8.16
Puu Waawaa	64	8.55	9.07

Station With Less Rain in October 1968 than
in Any Previous October

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous October Minimum	October 1968
HAWAII			
East Honokane	42	2.85 inches	1.50 inches

Stations Whose Previous Greatest 24-Hour Rainfall Totals
were Exceeded in October 1968

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous October 24-Hour Extreme	October 1968
KAUAI			
Hukipo	28	2.47 inches	5.52 inches
Makaweli	61	3.70	5.10
Puehu Ridge	28	4.05	5.31
Waimea	26	2.65	5.38

H A W A I I - O C T O B E R 1 9 6 8

SPECIAL WEATHER SUMMARY - CONTINUED

Stations Which Recorded Their Highest October Temperature
of Record in October 1968

(10 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Highest October Temperature	Highest in October 1968
KAUAI			
Makahuena Point	10	92 degrees	93 degrees **
OAHU			
Makapuu Point	17	86	89
HAWAII			
Kohala Mission	60	90	91 **

Stations Which Recorded Their Highest October Average Maximum
Temperature of Record in October 1968

(10 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Highest October Average Maximum	Average Maximum in October 1968
KAUAI			
Makahuena Point	10	86.8 degrees	87.2 degrees
OAHU			
Honolulu Substation	63	83.5	84.7
Makapuu Point	17	81.3	83.9
Opaehala	62	83.6	84.5
MAUI			
Hana Airport	17	85.2	85.9
Kailua	55	81.8	82.6
Wailuku	56	87.4	88.1
HAWAII			
Hilo WB	21	84.9	85.6 *
Kamuela Airport	13	78.0	78.5
Kohala Mission	60	83.3	84.6
Mountain View	30	80.8	81.0
Upolu Point USCG	12	86.9	87.1 **

* -- Highest in any month.
** -- Tied for highest in any month.

Saul Price
Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

Russell Dorr
Acting State Climatologist, Hawaii
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
OCTOBER 1968

Station		Total	Day of Month																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																			
ANAHOLA 1111	A	10.98	1.17	5.40	.01			.05		.05	.38	.06			.03	.01	.04	3.20	.26			.17								.04			.11		
BRIDGESWOOD STA 985	A	11.32	1.56	5.13	.12			.05	.10		.35				.02		.05	.75	.93			1.79	.03								.01		.48		
EAST LAKE 934	A	9.54	.75	5.00	.20			.04			.48						.10	.78	.94			.84	.01								T	.04	.01		
EAST LAKE 934	A	9.10	1.20	5.96	.18			.02		.09	.41	T					.71	.26			.30										T		.06		
HALAULA 1110	A	9.95	.75	6.00	.02			.05	.09	.20	.03				.06		1.90	.55			.10	.03									.15		.02		
HALEMANAHO 1006	A	15.88	.85	5.40	.15			.04		2.25	.61	1.92			.24		.18	1.24	1.17			1.17	.06							.07		.05	.48		
HUKI PO 945	A	9.79	1.25	5.52				.52		.58	.47						1.29	.07	.07			.05											.04		
ILILIULA INTAKE 1050	A	18.91	2.46	5.60	.13		.34			1.75	.07	.17	.10			.65		2.94	3.14	.80	.42	.07	.04								.02	.04	.02		
INTAKE HAINIHA PC 1086	A	10.53	3.40	1.34						.05	.23							2.17	1.05			1.84									.03				
KAIHIMAI RES 1131	A	11.11	.84	3.15	.01			.03	.01	.04	.19	.23					.06	2.78	2.41			.94	.11								.06	.01	.24		
KANALOHULULU 1075	A	9.89	1.33	6.05	.02		.06			.07	.67	.03			.08		.03	.85	.69	.09	.03	.55									.03	.05	.23		
KANEHA RESERVOIR 1092	A	16.15	.50	6.70	.05			.07		.03	.20	.45			.20		.10	2.00	1.20			.04	.08								.10		.22		
KAPAA STABLES 1104	A	11.01	.05	6.33	.02			.07		.17	.15	.26			.01		.07	1.15	.90			.07									.05		.27		
KEALIA 1112	A	9.93	.73	6.00	.03					.05	.31						1.32	.26	.01														.02		
KEKANA 944	A	7.84	.92	4.75	.11	.01	.08																												
KILAUEA 1134	A	12.85	2.00	3.09						.03	.02	.49	.09			.02		.07	4.90	1.61			.32	.06								.01	.02	.06	.07
KILAUEA FIELO 17 1135	A	13.79	2.23	3.72	.01			.11	.01	.06	.81						.01	4.07	1.72			.72	.02								.01	.03	.26		
KILAUEA POINT 1133	A	11.37	3.71					.06	.15	.72	.03				.07	.06	4.46	1.60	.16		.13	.01											.12	.09	
KOLD 1033	A	9.75	.56	3.05	.13	1.00					.45						.25	1.40	.83			.57										.08	.20		
KOLDA 936	A	10.63	1.60	5.15	.05			.05																											
KOLDA MAUKA 994	A	14.50	2.86	4.63	.54			.24		.14	.24	.31			.07		.07	1.52	1.66			1.51	.05								.05	.04	.03	.54	
KOLOKO RES 1137	A	13.52	2.05	3.63				.07	.01	.01	1.05				.01	.02		4.53	.98			.70	.02	.01							.18		.25		
KUKUIA 935	A	7.66	.68	4.94	.10			.01			.22						.10	.72	.45			.36											.13		
LIHUE VARIETY STA	A	13.88	1.48	4.16	.04	.05		.03		1.00	.08	.17	.02				.23	3.85	.67	.49		.37	.05								.13	.03	.03	1.00	
LIHUE 1020	A	12.81	1.72	3.75	.22	.01		.01		.83	.95	1.35			.04		.25	2.32	.41			.40	.07								.15		.02		
LIHUE 48 AP 1020.1	R	9.93	4.34	.22				.01	.41	.77	.33	T					2.83	.07	.49	.12	.08	.01	T							T	.22	.03	.06		
MAKAHUEA POINT 940.1	A	8.95	1.38	5.30		.02	.01				.05						.02	1.67	.03	.04	.09	.24											.06		
MAKAHUEI 965	A	7.85	5.10	.01				.22		.33							.83	.13	.02	.03													.06		
MAKA 1026	A	6.20	.51	3.55	.01	.35		.01	.07	.09	1.13						.03	.32	.11														.02		
MOMIHI JPR CROSS 1083	A																																		
MOLOAA 1145	A	10.53	1.15	3.83	.01					.04	.31	1.34	.01			.06		.02	1.59	1.58			.29								.08	.01	.18		
MOUNT MAHALEALE 1047	A	9.47	.90	4.35	.10		1.43			.14	.10	.68					.20	1.45	.12																
NIU RIDGE 1035	A	9.47	.90	4.35	.10		1.43			.14	.10	.68					.20	1.45	.12																
N WAILUA DITCH 1051	A	14.29	2.20	4.30	.10			.54		.36	.16	.40				.10	.16	2.30	2.20			.90										.11	.09	.46	
PN WAINIHA 1115	A	8.74	.26	3.43	.01			T		.02	.31	.10					1.50	1.55			.95	.22	.14								.01	.09	.04	.11	
PRINCEVILLE RANCH 1117	A	9.92	.92	2.66	.12			.02	.25	.52	.03						.03	3.09	1.56	.51	.03	.07	.01										.02	.08	
PUEHU RIDGE 1040	A	8.60	1.54	5.31	.15		.36			.05	.13	.20					.45	.25	.16													.11	.06	.58	
PUNHI 1013	A	13.43	1.05	5.29	.11					1.58	.56	.45			.06		.37	2.11	.22			.63	.05								.05		.08		
RESERVOIR 6 1004	A	13.46	2.11	4.70	.13			.09		1.21	.70	.64			.12		.22	1.50	.98			.94	.04								.01	.11	.08		
WAINIHA 930	A	8.30	1.27	4.90	.10					.23	.45	T					.67	.30				.52													
WAINIHA MOUNTAIN 990	A	8.75								.52	.15	.56	.03	.07			.05	2.43	2.47	.65	.26	.17	.13								.05	.06	8.75		
WAIHI LOWER 1054	A	14.85	1.25	5.15	.18			.52		1.76	.56	.11	.13				2.50	4.02	1.09	.31	.26	.03									.04		1.10		
WAIHI UPPER 1052	A	19.90	1.79	5.36	.15	.50				.29	.05	.21					.21	.33													.04		1.35		
WAILUA 943	A	6.45	.82	.54						.05	.09	.03					.37	2.43	.84			.46									.13		.52		
WAILUA KAI 1065	A	10.50	.16	5.42																															
WAIWEE 947	A	8.50	1.20	5.38	.12					.50							1.10	.10	.03	.05												.01	.02		
WEST LAKE 931	A	8.54	1.26	5.06	.06					.52							.01	.51	.59			.47									.01		.05		
ISLAND OF OAHU																																			
AIEA FIELD 625 761	A	5.42		1.75	.03	.88		.12	T	.70	.33				.02		.59	.38	.12			.38											.08		
BERETANIA PUMPING STA	A	2.11	1.34	.41	T			T	.02								.08	.04	T		.04	.08	.02	.04								T			
CAMP 84 807	A	6.51	1.83	.14	1.93	1.17		.01		.04	.40				.73		.18	.18	.01			.04			.01								.02		
CHURCH COLLEGE LAIE	A	3.51	2.20	.25	.03			.09							.01	.07	.26	.28	.09	.01	.06	.02	.06										.08		
COCONUT ISLAND 840.1	A	3.59	.02	1.88	.03	.01				.12	.10	.09			.01	.07	.12	.25	.01	.17		.02	.29	.35						.04	.03	.08			
EWA PLANTATION 741	A	2.62																																	

HAWAII
OCTOBER 1966

Station		Total	Day of Month																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF MOLOKAI																																	
A	KALAUAPA 563	3.48	*	2.21	.04	*	*	*	*	*	*	*	*	*	*	*	*	*.73	.03	.08	.53	*	*	*	*	*	*	.47	*	*	.08	.04	.
A	KALOAKAI 336	2.44	*	1.19	.52	*	*	*	*	*	*	*	*	*	*	*	*	*.73	.03	.08	.53	*	*	*	*	*	*	.47	*	*	.08	.04	.
A	KEDONELE PENS 551	4.66	*	1.32	2.65	.25	*	*	*	*	*	*	*	*	*	*	*.44	.18	.53	.37	.10	.11	.03	.08	.11	.11	.19	.20	.04	.02	.02	.02	.
A	KUALAPUU 534	2.84	*	2.10	.04	.37	*	*	*	*	.01	*	*	*	*	*	.08	.18	.53	.37	.10	.11	.03	.08	.11	.11	.19	.20	.04	.02	.02	.02	.
A	KAPULEHU 542	3.46	*	.24	.09	.08	*	*	*	*	*	*	*	*	.35	.05	.79	.08	.18	.53	.37	.10	.11	.03	.08	.11	.19	.20	.04	.02	.02	.02	.
A	KAUNALOA 511	4.30	1.98	.14	1.41	.27	*	*	*	*	.04	.16	.12	T	.02	.32	.23	.06	.02	.11	.07	.05	.34	T	.19	.04	T	.04	T	.10	.	.	
A	MOLOKAI AP 524	3.86	3.04	*	*	.04	*	*	*	*	.16	*	*	*	.02	.32	.23	.06	.02	.11	.07	.05	.34	T	.19	.04	T	.04	T	.10	.	.	
A	PUDOHOKU RANCH 542.1	1.93	.28	*	*	.04	*	*	*	*	.16	*	*	*	.02	.32	.23	.06	.02	.11	.07	.05	.34	T	.19	.04	T	.04	T	.10	.	.	
A	WAIKOLU 540	7.00	*	*	*	*	*	4.88	*	*	*	*	*	*	.14	*	*	*	*	*	.07	.01	.34	1.34	.52	.01	.64	.07	.01	.38	.03	.	.
ISLAND OF LANAI																																	
A	KANEPUU 690	2.24	*	.43	.09	*	*	*	*	*	.72	*	*	*	*	.13	*	.51	*	*	*	*	*	.23	*	*	*	*	*	*	*	.29	.
A	KAUMALAPUA HAR8DR 658	1.38	.52	.03	*	*	*	*	*	*	.72	*	*	*	*	.13	*	.51	*	*	*	*	*	.23	*	*	*	*	*	*	*	.29	.
A	LANAI CITY 672	4.48	.08	.96	.15	1.42	.04	T	T	T	T	.51	*	*	.06	*	.62	.48	*	*	*	*	.96	.02	T	.17	*	*	*	*	.07	.	
A	LANAI LEE 684	4.41	.08	.96	.15	1.42	.04	T	T	T	T	.51	*	*	.06	*	.62	.48	*	*	*	*	.96	.02	T	.17	*	*	*	*	.07	.	
A	MAHANA 694	3.55	*	.12	.05	*	*	*	*	*	.72	*	*	*	*	.13	*	.51	*	*	*	*	*	.23	*	*	*	*	*	*	*	.29	.
A	MALAEUA 676	4.09	*	.32	.66	*	*	*	*	*	.62	*	*	*	*	.04	*	2.76	*	*	*	*	*	.05	*	*	*	*	*	*	*	.	.
A	WAIATAKEAKUA 685	3.65	*	.32	.66	*	*	*	*	*	.62	*	*	*	*	.04	*	2.76	*	*	*	*	*	.05	*	*	*	*	*	*	*	.	.
ISLAND OF MAUI																																	
A	LUWAHI-252	5.86	*	.30	1.56	.41	.03	*	*	*	.10	*	*	*	2.55	*	.09	1.10	.53	1.48	.08	.06	.04	.25	*	*	*	*	*	.05	*	.	
A	HALEKALA 8 E S 434	3.80	.19	.84	.41	.03	*	*	*	*	.10	*	*	*	2.55	*	.09	1.10	.53	1.48	.08	.06	.04	.25	*	*	*	*	*	.05	*	.	
A	HALEKALA RANCH 432	2.51	.49	.46	.07	*	*	*	*	*	.58	T	.06	*	*	*	.01	T	.02	.57	1.28	T	.51	T	*	*	*	*	*	T	.01	.	
A	HALEKALA RS 338	3.87	T	.01	2.82																												

DAILY PRECIPITATION

HAWAII
OCTOBER 1968

Continued

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KUJULI 58.1	9.35	.06		.09				1.11			3.04	.01	.10	.03				.14	1.04	.25	1.28	.85	.41	.14		.01			.28	.04		.48	
KUJULI LOWER 993	3.19				1.19														.90														
KUJULI 97	5.62	.06	.11					.19			1.68	.03	.08	.03	.01	.04		1.03	.26	.68	.13	.89	.17										
KUJULI 20-2	3.19			.01	.38	.27				.02			.86	.24	.06		.02	.47	.17	.02	.03	T			.25					.06	.33		
KUJULI 181.2	4.50																															4.50	
KUJULI 444 A & F 6	11.60										2.55	.02	.87	.08				.03	.98	1.59	.97	.63	.52	.04					.76	.15	.02	11.60	
KUJULI 89-2	9.29	.14		.13			.08										.27	.01	.01			.68	.05	.10					.02	.02	.03		
KUJULI 179-1	1.17							.01		.04							.77	.01	.06			1.07	.03	.04					.12	.01	.01		
KUJULI MAULILI 176	2.19							T			T					.01	.59	T	T	.40	.20	.18	.07	.05					.24	T	.05		
KUJULI MISSION 175.1	1.79																		1.10								.73						
KUJULI LOWER 196	2.69				.86																		.02										
KUJULI 216-175 88.3	3.21				2.50	.10	.01		.02	.01	.08			.49																			
KUJULI VILLAGE 93.8	.32		.20																		.29	.53	.58	.06	.08					.06			
KUJULI 222	2.28													.07			.07				.23	.27	.25	.08	.48					.15			
KUJULI MALE MIC 199	1.60																																
KUJULI MALE MIC 206	1.76				.98			.31					1.05	.06			.06	.06	.56	.29	1.48	.05	.67	.18	.02	.08			.09	.04	.09	.08	
KUJULI CAMP 79	7.40	1.44	.05	.45							.05	.76		.06			.64		.18		.13	.57	.20							.11			
KUJULI MAJKA 76	3.92	.20	1.08			2.50							1.18	.22							2.10											.50	
KUJULI SCHOOL SITE 78	6.50									.96				.40		.08	.39	1.80			.14		.05							.44			
KUJULI 68-2	7.34			.32	1.44	1.02																											
MAJKA 2	2.36	T		.28	.17			.54	.01	T				.07		.99	T		.26			.05	T						.03		.03		
MAJKA 45A BEACH 98	6.65			.10	.02																			.41									
MAJKA 10A SLOPE 885	2.21	.54	.98	.10				T			.25	.01					.64			.14			.32							.01			
MIDDLE MAJKA 68.1	8.16				6.00		1.20									.18		.75		.14						.14							
MIDDLE PEN 147.1	3.24			2.35																													
MAJKA 18	11.25																															11.25	
MOUNTAIN VIEW 91	8.64	.03						1.48			1.02	.07	.17	.07	.09	.03	.02	.73	.53	1.43	.27	.38	.27			.07			.23	.17	.62	.36	
MAJKA 14	8.62		.48	.14	.34			.30	.01	.05	T	2.47	.02	1.65	.10	T	.01	.70	.02		.14	T	.24	.06	.01				.03		.05		
MAJKA 28	1.57							.41								.51						.65											
MAJKA FOREST 38.6	8.91										4.88	2.24					.81															.13	
MAJKA 179	1.73																			.02		.93	.20	.24					.12		.22		
MAJKA 223	2.34												.13	.03				.10	.53	.72	.27	.03	.01						.08				
MAJKA 24-1	3.11		.08	.52	.01		.77		.17	T		.13	.08	.07	.03	.73	.04	T	.01	.15	.01	T	.13	T					.03	T	.15		
MAJKA LAND EST 91.5	10.28				1.66			.02			3.36		.35						2.00		.18	.64	.51	.14	.13		3.26			.05			
MAJKA 217	2.02																																
MAJKA 271	1.82												.69						.23	.37	.43	.01	.06						.03				
MAJKA 21	11.15		.03	.15	4.78			.10	.06		3.06		.85	.38			.07	1.38		.02			.24							.15	.39	.03	
MAJKA 65	12.50	.20	3.19	.09	.39			.21	.03			.78	.39	.05			.13	.03	1.29	.45	1.21	.23	.68	.48		.22							
MAJKA 37	12.10																.12	.08	.59	.54	.93	.50	.85	.52	T					.13	.04	.04	
MAJKA 144-1	6.57							.66			1.19	.18	.20																				
MAJKA MAJKA 140-1	9.42	.19		.05	T		.02	.74			1.36	.02	.39	T			.07	.02	.84	1.46	1.38	1.08	.76	.20	T				.72	.08	.02		
MAJKA MAJKA 144	6.21	.01						.94			.97	.50	.01		.08		.02		.92	.46	.52	.06	1.08	.18					.01	.14	.31		
MAJKA 89	13.40																															13.40	
MAJKA 107	.73							.68																									
MAJKA 95.1	.49			.12	.18									.13			.02																
MAJKA 120	.97																																.97
MAJKA 102-1	2.18																																2.18
MAJKA 73	1.90																																1.90
MAJKA 113	1.27																.87	.02	.05			1.21	.02	.05						.06	.01	1.27	
MAJKA 167	2.38			.06							.02				.01																		
MAJKA 84	7.64	.04	2.35	2.45	.01						.39	.04	.04			.04	.54	.10	.38	.15	1.07	.05	.05	.10	.03	.06			.04		.08	.06	
MAJKA 94-1	9.07			1.44	4.30											.04	1.93	.62				.11											
MAJKA ROAD 1 84	14.05				4.00														6.00							4.05							
SOUTH POINT CORRAL 3	3.73				.66						.01		.67	1.51							.61												
MAJKA 118	2.37			1.11				.02									.08				.35	.67	.03		.10								
MAJKA POINT USCG 159.2	.67		.09														.05			.19	.17	.04									.09		
MAJKA SCO 88.2	9.38	T		.08				.24			2.38		.15				.02	.14	.48	.44	1.95	1.58	.42	.67	.08		.04	.01	.06	.09	.59		

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages percent				Number of days with precipitation								Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150TH MERIDIAN TIME				Trace	01-09	10-49	50-99	100-199	200 and over	Total			
							2 AM	8 AM	2 PM	8 PM										
HILO, HAWAII, WB AIRPORT	15	2.0	5.9	20	E	01	90	77	71	89	4	8	7	2	2	0	23	50	5.8	
HONOLULU, OAHU, WRFC	7	5.4	9.8	26	NE	20+	82	75	61	75	6	10	4	0	1	0	21	64	5.3	
KAHULUI, MAUI, WB AIRPORT	6	5.6	9.4	26	NE	21	88	76	55	79	4	4	2	0	0	0	10	79	4.7	
LIHI, KAUAI, WB AIRPORT	6	2.5	8.1	29	SW	01	90	88	79	88	4	5	6	1	0	2	18	60	5.5	

HAWAII
OCTOBER 1968

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DAILY TEMPERATURES

HAWAII
OCTOBER 1968

Continued

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAILUJ 392	MAX MIN	90 68	90 72	89 72	88 70	89 69	89 73	88 73	87 69	92 72	88 73	87 73	90 73	89 76	89 70	87 73	87 71	87 73	86 73	87 72	88 72	88 71	88 72	89 71	89 71	87 72	88 65	88 68	88 70	86 72	86 72	88 74	88.1 71.5
ISLAND OF HAWAII																																	
HAUNA 214	MAX MIN	86 67	89 70	88 71	85 66	87 65	86 68	84 67	86 64	87 64	87 67	86 70	88 70	87 68	84 65	87 69	88 66	86 67	86 70	85 67	84 67	83 64	82 65	84 66	85 65	84 63	85 64	84 64	84 67	84 67	85 66	86 68	85.5 66.7
HAWAII VOLCNS NP HQ 54	MAX MIN	74 57	73 60	73 57	75 52	74 57	73 56	74 60	72 52	75 53	74 54	76 62	71 62	74 60	75 56	73 58	77 54	75 54	71 57	72 56	68 57	68 52	68 52	71 53	71 51	72 53	71 51	72 50	70 56	70 54	73 54	72.2 55.6	
HILO WB AIRPORT 87	MAX MIN	88 70	87 70	87 69	87 68	87 69	86 68	86 69	87 66	87 67	87 67	84 74	87 75	87 70	87 68	87 69	86 67	86 67	86 71	85 71	84 72	83 69	81 69	84 67	84 65	85 67	85 66	85 66	85 66	85 66	85 66	85 66	85.6 68.6
KAINALIU 73.2	MAX MIN	81 66	84 66	84 68	82 65	78 65	82 66	82 66	82 66	80 65	81 67	84 69	85 69	83 68	79 68	82 67	79 67	81 66	80 66	82 66	82 65	82 64	80 65	81 65	82 62	80 63	83 61	82 62	81 63	82 62	83 62	82 65	81.6 65.3
KAMUELA 192.2	MAX MIN	81 54	83 53	84 57	81 54	81 57	77 60	78 55	80 54	81 54	80 53	80 56	82 58	83 60	78 55	80 53	81 54	80 57	80 58	76 58	74 60	73 60	73 60	76 56	78 50	75 47	81 45	80 48	75 60	75 60	76 52	78.5 55.2	
KAMUELA AIRPORT 191	MAX MIN	80 52	81 54	83 58	78 54	77 59	80 56	80 54	79 49	79 44	77 44	61 60	61 59	78 53	60 52	79 52	78 51	78 50	77 51	76 49	77 58	75 54	74 53	76 49	76 48	80 45	79 45	79 49	76 52	76 50	77 49	78.2 52.0	
KEAAJ 92	MAX MIN	87 68	86 70	87 69	88 67	84 67	84 67	84 67	88 65	88 65	88 65	89 65	88 67	87 67	87 67	89 67	87 67	88 67	88 67	86 68	86 68	86 68	87 68	82 64	82 64	82 64	82 64	82 64	87 65	87 65	86 66	86.5 66.9	
KEALAKEKUA 26.2	MAX MIN	82 66	83 68	84 67	83 66	78 66	82 67	82 65	85 65	80 65	82 67	84 68	84 69	83 69	79 69	82 68	81 67	82 66	82 66	82 65	82 65	80 65	82 64	81 65	79 65	81 63	80 64	81 64	81 65	82 65	82 67	81.9 66.0	
KOHALA MISSION 175.1	MAX MIN	86 68	88 68	88 73	84 68	86 70	85 71	85 69	86 69	87 69	86 67	86 69	91 72	85 72	85 68	86 68	87 70	84 72	83 72	84 72	82 69	81 71	83 69	83 66	83 66	84 65	84 65	84 65	82 68	82 68	82 68	83 69	84.6 68.9
KONA AIRPORT 68.3	MAX MIN	86 67	88 70	87 69	86 66	86 66	87 66	86 66	87 66	88 66	86 68	87 68	87 67	86 67	85 68	86 68	86 67	86 67	86 67	87 68	87 68	85 68	85 68	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86.3 67.6	
KULANI CAMP 79	MAX MIN	69 51	72 53	73 52	70 49	74 48	69 46	70 54	68 43	71 47	70 49	72 48	75 55	71 45	68 50	74 50	70 49	68 53	68 53	66 52	66 52	66 51	66 45	66 45	66 46	65 46	67 46	68 40	67 40	66 48	67 49	68 51	68.9 48.7
MAUNA KEA BEACH 98	MAX MIN	89 73	89 71	88 75	85 72	88 74	88 73	90 73	88 72	87 73	86 72	88 76	88 74	87 73	87 72	89 71	86 73	89 72	89 71	88 76	92 70	96 77	96 72	87 69	87 69	87 69	87 69	87 69	86 71	88 74	87 71	89 73	88.6 72.5
MAUNA LOA SLOPE DBS	MAX MIN	53 37	52 37	50 38	53 40	56 42	57 40	55 36	56 39	56 38	54 38	53 40	54 39	58 40	59 39	59 36	55 38	55 38	53 38	54 36	55 36	51 37	50 35	54 33	56 33	58 32	58 32	56 30	55 36	55 36	56 37	55.0 37.4	
MOUNTAIN VIEW 91	MAX MIN	81 60	81 65	81 64	83 63	84 61	84 61	82 66	81 60	84 60	82 61	86 66	81 66	81 68	82 62	82 62	84 62	84 61	81 61	81 62	78 65	78 64	80 60	74 58	78 58	80 58	81 58	81 58	82 62	78 61	79 61	78 62	81.0 61.9
NAALEHU 14	MAX MIN	84 72	86 70	85 71	85 69	85 69	85 69	83 67	83 67	84 67	84 67	85 67	85 67	84 71	84 71	84 71	85 70	85 70	84 70	84 70	84 70	85 71	85 69	82 69	83 69	83 68	83 68	84 68	83 68	83 68	83 68	83.8 69.6	
ODKALA 223	MAX MIN	84 69	87 70	85 72	84 69	85 71	85 71	85 71	85 71	86 71	85 73	90 73	85 72	85 72	87 71	85 73	85 73	85 73	85 74	80 72	82 72	80 73	80 70	83 62	82 62	82 62	83 62	82 62	83 62	84 62	84 63	84.3 69.7	
OPIHIHALE 2 24.1	MAX MIN	86 63	86 66	78 65	77 63	82 63	83 63	84 62	82 63	82 65	68 68	70 70	73 73	66 72	66 73	65 75	65 74	64 72	80 72	82 72	80 73	80 70	80 62	83 62	80 62	80 61	81 59	80 60	81 62	80 62	82 63	81.5 63.3	
PAHALA 21	MAX MIN	83 64	85 68	80 68	83 64	83 64	83 64	84 65	82 65	83 64	81 65	85 65	82 64	83 65	81 65	85 64	82 62	82 62	85 65	83 64	83 64	85 64	75 62	82 64	83 64	83 64	84 64	84 64	84 64	82 65	83 65	82.7 65.4	
UPOLI POINT USCG 159.2	MAX MIN	90 74	89 75	91 77	89 74	88 73	86 73	86 74	86 74	89 74	88 74	90 77	90 77	89 74	89 72	86 74	89 73	89 73	85 73	85 71	85 71	86 71	88 71	86 71	86 71	85 71	85 70	86 70	85 72	85 72	85 71	87.1 72.8	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1		EVAP WIND MAX MIN	.30 126 92 68	.25 117 77 72	.22 100 86 74	.34 82 94 74	.23 58 97 73	.28 88 94 73	.23 64 95 72	.30 67 95 70	.06 54 87 70	.26 53 88 70	.16 53 90 70	.18 43 93 73	.23 60 95 72	.24 68 97 73	.27 71 95 75	.24 72 95 74	.20 120 83 72	.11 120 83 72	.13 162 89 73	.27 187 91 72	.29 157 86 70	.26 86 66 68	.23 66 66 66	.15 71 66 65	.30 55 65 65	.15 54 65 65	.20 174 89 70	.26 100 91 71	.30 107 91 71	.22 95 92 71	7.02 274.7 90.9 70.7
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2		EVAP WIND MAX MIN	.16 49 94 75	.13 25 78 74	.18 92 99 77	.15 95 95 74	.18 97 96 74	.25 96 94 71	.18 96 96 71	.17 96 96 72	.27 12 96 72	.18 28 97 76	.17 12 95 75	.15 13 100 75	.15 18 94 75	.22 16 96 75	.10 7 90 75	.09 12 84 74	.21 34 93 72	.28 40 92 72	.27 40 92 71	.25 36 91 69	.21 32 91 69	.16 16 93 70	.17 19 93 68	.22 23 94 67	.30 36 95 67	.15 17 95 69	.15 18 94 69	.20 21 86 67	.16 50 92 68	5.808 707 93.2 71.9	
* * * ISLAND OF HAWAII																																	
HILO WB AIRPORT 87		EVAP WIND MAX MIN	.25 104 88 69	.19 88 87 69	.26 91 92 69	.20 48 93 67	.32 52 93 65	.23 48 88 67	.28 49 88 67	.25 44 85 66	.12 56 83 64	.05 42 83 73	.14 56 85 72	.16 46 87 70	.18 34 90 69	.31 88 86 66	.22 91 91 68	.18 40 90 68	.19 40 87 70	.21 49 90 70	.19 40 87 90	.19 41 90 90	.05 35 90 69	.17 42 90 66	.20 37 88 64	.20 52 89 67	.29 36 89 63	.20 47 90 69	.18 42 86 66	.19 47 87 66	.08 26 83 68	.17 50 88 70	6.058 1546 88.4 67.6

See Reference Notes Following Station Index

STATION INDEX

Hawaii
OCTOBER 1968

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	
								TEMP	PRECIP	EVAP	SPECIAL										TEMP	PRECIP	EVAP	SPECIAL		
ISLAND OF KAUAI																										
ALEXANDER RESV. 983	0140	02	KOLA		21 21 N	159 32 W	1210					C	MC BYRDE SUGAR CO.													
ANALEA 1111	0145	01	KAWAIIH		21 22 N	159 32 W	1161					7A	LIME PLANTATION													
BRIDGESWOOD STA 985	0240	02	KOLA		21 26 N	159 32 W	1610					7A	MC BYRDE SUG CO LTD													
EAST LAWA 934	0456	02	KOLA		21 25 N	159 30 W	460					7A	MC BYRDE SUG CO LTD													
ELK L RESERVOIR 1094-1	0465	01	KAWAIIH		21 22 N	159 32 W	800					7A	LIME PLANTATION													
ELEETE 927	0470	02	KOLA		21 25 N	159 35 W	163					6A	MC BYRDE SUG CO LTD													
KALIA 1110	0101	01	KAWAIIH		21 22 N	159 19 W	9					7A	LIME PLTN CO LTD													
KALIA 1112	0102	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1113	0103	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1114	0104	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1115	0105	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1116	0106	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1117	0107	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1118	0108	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1119	0109	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1120	0110	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1121	0111	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1122	0112	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1123	0113	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1124	0114	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1125	0115	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1126	0116	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1127	0117	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1128	0118	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1129	0119	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1130	0120	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1131	0121	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1132	0122	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1133	0123	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1134	0124	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1135	0125	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1136	0126	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1137	0127	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1138	0128	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1139	0129	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1140	0130	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1141	0131	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1142	0132	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1143	0133	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1144	0134	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1145	0135	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1146	0136	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1147	0137	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1148	0138	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1149	0139	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1150	0140	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1151	0141	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1152	0142	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1153	0143	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1154	0144	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1155	0145	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1156	0146	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1157	0147	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1158	0148	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1159	0149	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1160	0150	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1161	0151	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1162	0152	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1163	0153	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1164	0154	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1165	0155	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1166	0156	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													
KALIA 1167	0157	01	KAWAIIH		21 22 N	159 26 W	1218					7A	MC BYRDE SUG CO LTD													

STATION INDEX

HAWAII
OCTOBER 1968

STATION	INDEX NO.	DIVISION	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	
							TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)										TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
HAWAII												ISLAND OF HAWAII													
1. HAWAII	1	1	1	1	1	1	1	1	1	1	1	PUU KINE 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750	HQ					KUKAIAU RANCH CO
2. HAWAII	2	2	2	2	2	2	2	2	2	2	2	PUU LAU 102-1	A 8452	04	HAMAKUA	4	19 50	155 36	7440	HQ					STATE DIV OF FISH-GAME
3. HAWAII	3	3	3	3	3	3	3	3	3	3	3	PUU LEWIA 73	A 8460	04	N KONA	4	19 36	155 49	4880	HQ					GREENWELL RANCH
4. HAWAII	4	4	4	4	4	4	4	4	4	4	4	PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960	HQ					KUKAIAU RANCH CO
5. HAWAII	5	5	5	5	5	5	5	5	5	5	5	PUUOKUMAU 167	A 8448	01	N KOHALA	1	20 13	155 56	1800	TA					KOHALA DITCH CO LTD
6. HAWAII	6	6	6	6	6	6	6	6	6	6	6	PUU CO 82	A 8550	02	S HILO	2	19 44	155 23	6340	6A					W. M. SHIPMAN, LTD
7. HAWAII	7	7	7	7	7	7	7	7	7	7	7	RUU WAHAA 94-1	A 8555	05	N KONA	5	19 47	155 51	2520	TA					DILLINGHAM RANCH INC
8. HAWAII	8	8	8	8	8	8	8	8	8	8	8	SADDLE ROAD 1.84	A 8590	02	S HILO	2	19 42	155 12	2360	WA					BOARD OF WTR SUPPLY
9. HAWAII	9	9	9	9	9	9	9	9	9	9	9	SOUTH POINT CORRAL 3	A 8679	03	KAU	3	18 57	155 41	400	WI					HUTCHINSON SUGAR CO
10. HAWAII	10	10	10	10	10	10	10	10	10	10	10	POINT TRACING STA	A 8679	03	KAU	3	18 57	155 41	305	WI					FEDERAL ELECTRIC CORP
11. HAWAII	11	11	11	11	11	11	11	11	11	11	11	PARAHU SUGAR CO													
12. HAWAII	12	12	12	12	12	12	12	12	12	12	12	HAMAKUA MILL CO	A 8781	01	HAMAKUA	1	19 59	155 23	3420	TA					KUKAIAU RANCH CO
13. HAWAII	13	13	13	13	13	13	13	13	13	13	13	HAWAIIAN AGR CO	A 8830	01	N KOHALA	1	20 15	155 53	64	BA					U S COAST GUARD
14. HAWAII	14	14	14	14	14	14	14	14	14	14	14	PUNA SUGAR COMPANY	A 9028	02	S HILO	2	19 40	155 08	1050	TA					SHINICHI KANESHIRO
15. HAWAII	15	15	15	15	15	15	15	15	15	15	15	HAWAIIAN RANCH CO, INC.	A 9350	01	N KOHALA	1	20 08	155 47	3030						KAHUA RANCH
16. HAWAII	16	16	16	16	16	16	16	16	16	16	16	MAUNA KFA SUGAR CO.													
17. HAWAII	17	17	17	17	17	17	17	17	17	17	17	MAUNA KFA SUGAR CO.													
18. HAWAII	18	18	18	18	18	18	18	18	18	18	18	PEREPEKO SUGAR CO.													
19. HAWAII	19	19	19	19	19	19	19	19	19	19	19	STATE DIV OF FORESTRY													
20. HAWAII	20	20	20	20	20	20	20	20	20	20	20	STATE DIVISION OF PARKS													
21. HAWAII	21	21	21	21	21	21	21	21	21	21	21	ERWIN H. BARD													

1 DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, Red Wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELATED DATA AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- And also on an earlier date or dates.
- Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- Amount included in following measurement, time distribution unknown.
- The letter "A" when following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index" indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletins. If daily amounts are published in "Climatological Data" bulletins they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletins.
- MO Gage read once monthly, usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

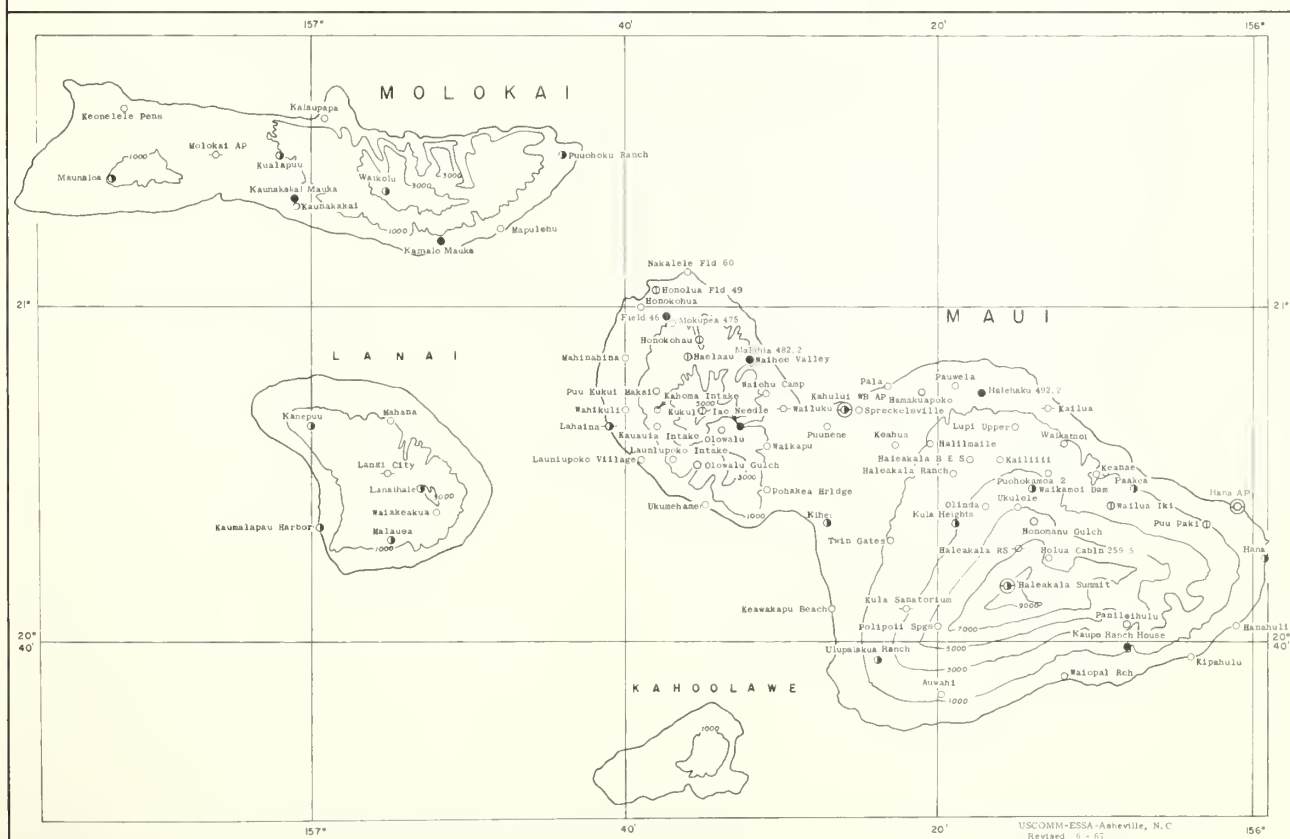
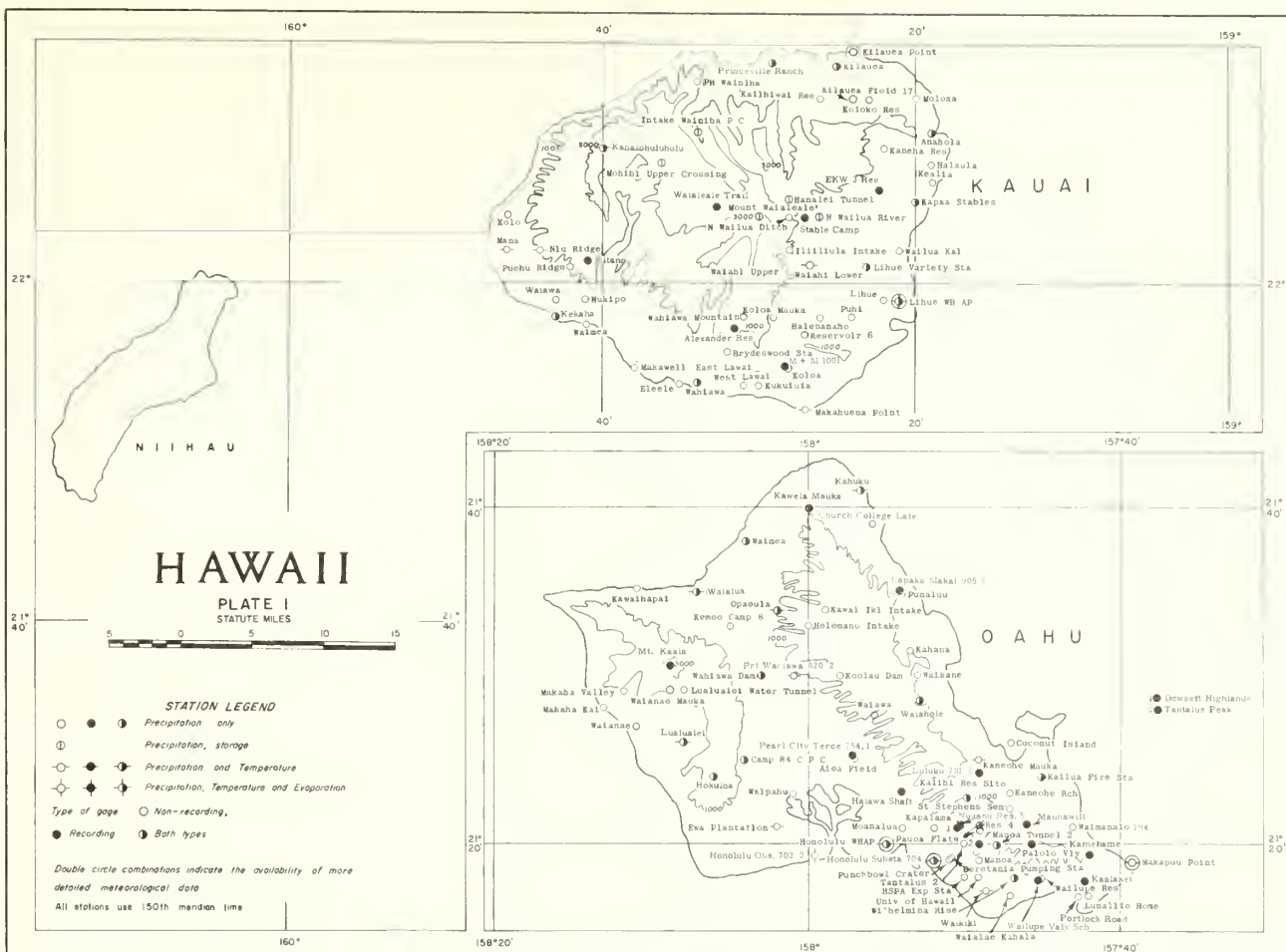
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOM-ESSA-ANNEVILLE-2/3/69-B90



156°

40'

20'

155°

HAWAII

HAWAII

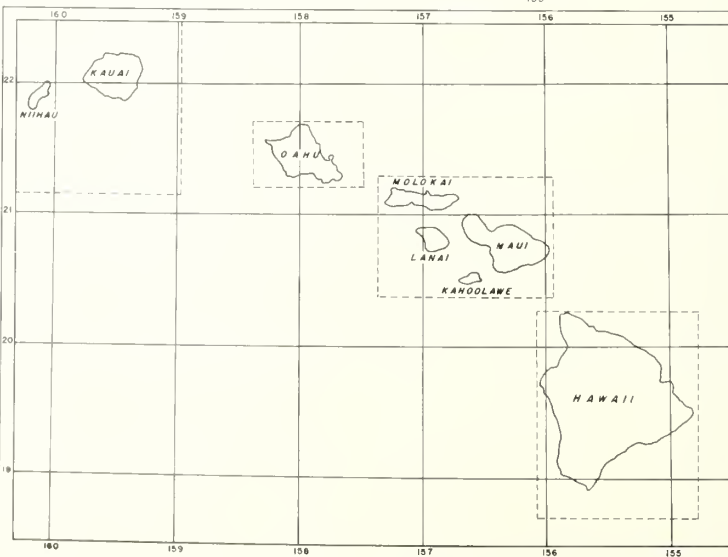
PLATE 2
STATUTE MILES

STATION LEGEND

- ● ▸ Precipitation only
- ⊖ ● ▸ Precipitation, storage
- ● ▸ ▸ Precipitation and Temperature
- ● ▸ ▸ ▸ Precipitation, Temperature and Evaporation
- Type of gage: (○) Non recording, (●) Recording, (▸) Both types

Double circle combinations indicate the availability of more
 detailed meteorological data
 All stations use 1501h meridian time

UNCOMMERSA-Alberville, N.C.
 Printed 1961



CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE

MAURICE H. STANS, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

NOVEMBER 1968

Volume 64 No. 11

CLIMATOLOGICAL DATA

Station		Temperature										Precipitation																
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
											Max.	Min.	Total	Departure From Normal					Greatest Day	Date	Total	Max. Depth on Ground	Date	10 or More	50 or More	100 or More		
* * * ISLAND OF KAUAI											8° or Above	32° or Below	32° or Below	0° or Below														
	ANAMOLA 1111	A	70.2	53.2	61.7		75	2	47	21+	0	0	0	0	7.69	2.93	5.09	30	.0	0				9	5	4		
	KANALOHULU 1075	A													15.58				.0	0								
	KAPAA STABLES 1104	A													10.37				.0	0								
	KILAUEA FIELD 17 1135	A													12.20	3.92			.0	0								
	KILAUEA POINT 1133	A	84.1	72.4M	78.3M		90	7	68	30	1	0	0	0	9.14		4.27	29	.0	0			14	5				
	KOLOA 936	A													5.12	-.95	2.37	14	.0	0						2		
	LIHUE WB AP 1020.1	R	81.0	70.3	75.7	1.2	84	12+	66	16+	0	0	0	0	8.62	4.09	4.08	29	.0	0			9	4	2			
	MANA 1026	A	85.8	68.0	76.9	2.2	90	10+	64	22	2	0	0	0	7.50	5.45	3.05	13	.0	0			8	4	3			
	N WAILUA DITCH 1051	A													14.34				.0	0								
	PM WAINIHA 1115	A													19.75	9.78	9.31	30	.0	0			11	4	3			
	PUEHU RIDGE 1040	A													5.57		3.53	13	.0	0			4	4	1			
	WAIHAWA 930	A													4.26	1.17	2.24	14	.0	0			2	2				
	WAIHAI LOWER 1054	A	83.0	63.8	73.4		87	27	60	30+	0	0	0	0	16.65		6.13	30	.0	0								
	WAIHEA 947	A													4.12	2.38	2.30	13	.0	0			4	2	2			
ISLAND				73.2											10.07				.0									
* * * ISLAND OF OAHU																												
	HONOLULU OBSERV 702.2	R	86.3	71.2	78.8	2.9	90	8+	67	28+	3	0	0	0	4.70		2.83	30	.0	0			4	3	1			
	HONOLULU WBFC 703	A													5.64	3.48	1.64	29	.0	0			5	4	3			
	KAHUKU 912	A													2.39	-1.34	1.50	14	.0	0			1	1				
	KANEHE MAUKA 781	A	82.9	71.0	77.0	2.8	87	12	68	29+	0	0	0	0	11.30	6.02	6.60	29	.0	0			14	3	2			
	KOOLAU DAM 833	A													11.74	3.75	4.50	29	.0	0			11	5	3			
	LUALUALEI 804	A	85.2M	69.8M	77.5M										*				.0	0								
	MAKAPUU POINT 724	A	81.7	73.8	77.8		86	24+	69	29	0	0	0	0	6.14	3.85	3.55	30	.0	0			4	2	2			
	NUUANU RES 4 783	A													9.82	.51	4.26	29	.0	0			9	5	2			
	OPAULA 870	A	82.7	65.6	74.2	4.0	87	2	63	18	0	0	0	0	10.07	5.06			.0	0								
	PAOLO VALLEY 718	A													14.14	3.08	7.14	29	.0	0								
	FRI WAIHAWA 920.2	A	84.1M	64.4M	74.3M		88	11+	61	8	0	0	0	0	1.87				.0	0								
	PUNALUU 884	A													9.18		4.50	30	.0	0					2			
	WAIHAWA OAM 863	A													7.00				.0	0								
	WAIHOLE 837	A													12.85	1.02			.0	0								
	WAILUA 847	A	85.0	66.0	75.5	2.1	89	5+	63	22+	0	0	0	0	4.82	2.47			.0	0								
	WAIKIKI 717.2	A	86.7	71.3	79.0		89	18+	66	27+	0	0	0	0	4.51		2.42	30	.0	0			3	2	2			
	WAIKAKU 750	A													4.78	2.22			.0	0								
ISLAND				76.8											7.56				.0									
* * * ISLAND OF MOLOKAI																												
	KUALAPUU 534	A													1.09	-2.01			.0	0					0			
	MAPULEHU 542	A													5.80	2.15	2.50	14	.0	0			11	2	2			
	MAUNALOA 511	A													2.67	-.08	2.35	30	.0	0			2	1	1			
	MOLOKAI AP 524	A	84.0	69.2	76.6		87	13+	65	5	0	0	0	0	2.51		1.13	30	.0	0			3	2	2			
ISLAND				76.6											3.02				.0									
* * * ISLAND OF LANAI																												
	LANAI CITY 672	A	79.5	64.4	72.0	3.4	85	13	61	17	0	0	0	0	4.38	1.52	2.12	30	.0	0			3	3	3			
ISLAND				72.0											4.36				.0									
* * * ISLAND OF MAUI																												
	HALEAKALA B E S 434	A													16.05	9.81	13.63	29	.0	0			5	3	1			
	HALEAKALA RS 338	A	66.1	45.7	55.9		72	7	41	28	0	0	0	0	15.86		14.10	29	.0	0			4	2	2			
	HANA AIRPORT 355	A	84.7	70.2	77.5		87	9+	67	28+	0	0	0	0	12.78		9.98	29	.0	0			9	2	1			
	HONOKOHUA 493	A													3.18	-.14			.0	0								
	KANAPALI AIRPORT	A	85.6	69.4	77.5		89	8	67	28+	0	0	0	0	2.49		1.80	29	.0	0			2	2	1			
	KAHULUI WB AP 398	K	88.3	66.4	77.4	2.4	92	13	62	17+	12	0	0	0	4.86	3.34	2.32	28	.0	0			4	2	2			
	KAILUA 446	A	80.7	66.2	73.5	2.5	84	19+	63	29+	0	0	0	0	12.32	2.27	7.80	29	.0	0			12	4	2			
	KEANAE 346	A													19.80	.98			.0	0								
	KIPAHULU 258	A													11.10	2.00	5.86	29	.0	0			10	3	2			
	KULA SANATORIUM 267	A	74.4	56.8	65.6	1.2	77	14+	53	23	0	0	0	0	2.15	.15	1.21	29	.0	0			4	2	1			
	LAHAINA 361	A	87.1	69.0	78.1		91	19	67	22	1	0	0	0	2.29	1.08	2.00	29	.0	0			2	1	1			
	PAIA 406	A													4.25	1.34	3.80	29	.0	0			2	1	1			
	WAILUKU 392	A	87.0	68.3	77.7	2.9	92	14	64	27+	7	0	0	0	3.76	1.42			.0	0								
ISLAND				72.9											8.53				.0									
* * * ISLAND OF HAWAII																												
	HAINE 214	A	84.4	65.8	75.1	3.1	87	14+	63	8+	0	0	0	0	2.20	-3.47	1.50	29	.0	0			4	1	1			
	HAWAII VOLCAN NP HQ 54	A	71.0	53.9	62.5	1.7	75	8	50	5	0	0	0	0	4.51	-5.67	1.97	15	.0	0			5	2	1			
	HILD WB AIRPORT 87	K	84.3	68.1	76.2	3.0	87	7	65	7	0	0	0	0	10.22	-3.15	3.85	30	.0	0			13	4	3			
	HUEHUE 92.1	A													.83	-2.10			.0	0								
	KAINALIHI 73.2	A	81.3	64.1	72.7		83	12+	61	23+	0	0	0	0	2.01	-2.26	1.36	15	.0	0			3	1	1			
	KAMUELA AIRPORT 191	A	77.9	49.4	63.7		82	28+	42	24+	0	0	0	0	.77		.35	30	.0	0			2	0	0			

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 138

CLIMATOLOGICAL DATA

HAWAII
NOVEMBER 1968

Continued

Continued

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										50° or Above	32° or Below	32° or Below	50° or Below										
KEAAU 92	87.0	66.3	70.7	4.1	89	12+	65	30+		0	0	0	0	8.73	- 5.20	3.01	29	.0	0		11	3	3
KEALAKEUA 26.2	81.7	65.9	73.7		83	14+	64	25+		0	0	0	0	1.27		.71	15	.0	0		9	1	0
KONA AIRPORT 68.3	85.2	67.6	76.4		88	3	65	15+		0	0	0	0	.14		.11	15	.0	0		1	0	0
KUKIHAELE MIC 199										0	0	0	0	1.95	- 4.81	1.05	29	.0	0		6	1	1
KULANI CAMP 79	68.4M	47.0M	57.7M		72	14+	40	8+		0	0	0	0	2.69		1.40	15	.0	0		5	2	1
MAUNA KEA BEACH 98	88.5	72.2	80.4		95	4	68	7		9	0	0	0	.04		.04	15	.0	0		0	0	0
PAHALA 21	82.1	64.5	73.3	1.5	85	23	61	4		0	0	0	0	5.50	.06	2.67	15	.0	0		5	2	2
POHAKULOA 107														.60				.0	0				0
PUAKO 95.1														.16				.0	0				0
PUU WAAHAA 94.1														1.62	- .47	1.00	30	.0	0		1		1
UMIKOA 118														2.02	- 4.38	1.00	30	.0	0		4	2	1
WAIKAPA SCO 88.2														7.60		3.40	29	.0	0				2
ISLAND			71.7											2.94				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 95° ON THE 4TH AT MAUNA KEA BEACH 98, HAWAII

LOWEST TEMPERATURE: 34° ON THE 28+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 28.50 INCHES AT WAHIAWA MOUNTAIN 990, KAUAI

LEAST TOTAL PRECIPITATION: ZERO AT 2 STATIONS, MOLOKAI

GREATEST ONE-DAY PRECIPITATION: 24.00 INCHES ON THE 30TH AT INTAKE WAINIHA
PC 1086, KAUAI

SPECIAL WEATHER SUMMARY

The damaging wind and rainstorm which broke over Hawaii on November 28 (and was consequently widely referred to as the "Thanks-giving Day Storm") extended well into the first

week of December. A full description of that storm may be found in the December 1968 issue of this publication.

Saul Price
Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
NOVEMBER 1968

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																		
ANAHOLA 1111	A	7.69		*	*					.05	*	*	.06	1.45 2.27	*	*	.15	.02	T								.67			*	*	7.92	*	
BRIDGESWOOD STA 985	A	4.59	T	*	*	.13	T	.01		.16	*	*	.10	.01	1.83 2.00	*	*	.03	T									.29	.02	.01	*	*		*
EAST LAKE 934	A	3.94	T	*	*	.19				.37	*	*	.07	T	1.12 1.99	T	*	.04	T	.01								.45	.03		*	*		*
ELEELE 927	A	5.92		*	*	.02				.13	*	*	.08	T	1.86 2.93	.02	*	.06										.10			*	*		*
HALAULA 1110	A	8.68	.05	*	*	.08				.07	*	*	.21	.02	1.06 2.89	.09	*	.16	.02									.47	.02	*	*	3.48	*	
HALENANAOH 1006	A	4.81		*	*	.35				.03	*	*	.11	.07	1.21 2.20		*	.12	.04	.09								.45	.14		*	*		*
HUKIPU 945	A	4.08		*	*	.03				.03	*	*	.01	*	3.40 .55		*																.10	*
ILILIULA INTAKE 1050	A	30.61	.06	.24	.30	.04			*	.48	.05	.20	.15	.03	2.00 2.30		.20	.08		.03	.32	.03		.40	1.00	.37	.34				4.02	*	*	
INTAKE WAINIHA PC 1086	A	11.98	.28	*	*	.25	*	*	*	.36	*	*	.36	*	3.90 1.05		*	.90	*	.35	.07	.17	.06	.70				.82			18.3524.00	*	*	
KALIHUWA RES 1131	A	15.58	.20	*	*	.07	.16	.07	*	.27	.01	.74	.79	.02				.35	.07									1.00	.07				4.90	*
KANALOHULU 1075	A	23.05	.05	*	.02	.02			.03	.07	*	.10	.04	.08	4.47 1.30		.05	.10		.10	.02				.14	.03				.50	3.42	5.09	*	
KANEHE RESERVOIR 1092	A	10.37	.03	*	*	.15				.05	*	*	.23	.03	.86 2.93		*	.38		.18	.02					1.14	.04					16.27	*	
KAPAA STABLES 1104	A	6.83		*	*	.17				.15	*	*	.01	*	.98 2.39	.06	*	.10	.05	.02								.60	.15		*	*	5.05	*
KEALIA 1112	A	4.70		*	*					1.29			.05	2.93 .43				.04	.02									.57			*	2.41	*	
KEKAA 944	A	3.97	.31	*	*	.28	.02	.01					.46	.01	.55 .64	.02	*	.26	.01	.14	.06		.01	*	*		.75	.10	.01	*	*	6.33	*	
KILAUWA FIELD 17 1135	A	12.20	.25	*	*	.49	.14	.02		.01	*		.36	.02	.59 1.19	.02	*	.50	.02	.23	.05		.01	*	*		1.01	.06	.01	*	*	7.24	*	
KILAUWA POINT 1133	A	9.14		.16	.11					.10	.13	.15		.67	.58		.16	.08		.07			.35	.19	.28					.88	4.27	.81	*	
KOLO 1033	A	5.34		*	*					.10				.23	2.42 1.10		*											.03				.68	.78	*
KOLOA 936	A	5.12	.02	*	*	.65				.02	*	*	.11	.04	1.40 2.37		*		.06	.02	.06							.38			*	*		*
KOLDA HAUKA 994	A	6.60	.06	*	*	.38							.24	1.81 3.00		*		.12	.09								.81	.09		*	*		*	
KOLDKO RES 1137	A	16.35	.38	*	*	.79				.10	*	*	.34	.80 3.01	.01	*		.30	.02	.30						1.08	.14		*	*	9.58	*		
KURUKULA 935	A	3.37		*	*	.24							.74	.06	1.97 T		*	.02	.01								.05						*	
LIHUE VARIETY STA	A	13.37	.20	*	*	.23							.09	.08	1.75 1.10	1.62	.05	.10	.08	.40	.01					.23	.27	.38	.08	.02	*	2.05	5.75	*
LIHUE 1020	A	11.03	.04	*	*	.11				.11	*	*	.08	1.50 1.10		*		.04	.03	.09								.50	.03		*	*	7.40	*
LIHUE W8 AP 1020.1	R	8.62	.02	.01		.01		T	.09	.01	.06	.03	.51	1.55 .20		.11	.05	T		.04	.06		.38			.18				.30	4.08	.99	*	
LIHUE WAINIHA PNT 940.1	A	7.92	.01	.02	.03	.04	.01	T					.04	.07 .17 2.60	.01			.02		.11	.01		.15			.07	.01				3.11		*	
MAKAHELI 965	A	12.31		*	*				.11	.22	.03		.01	2.70 1.38	.01								.02								.03	1.08	6.94	*
MANA 1026	A	7.50		*	*								.14	3.05 1.74													1.22				.41	.56	.16	*
MOHINI UPK CROSS 1083	A	7.40		.10							.10		1.10	6.90 1.60		.20		.20						.20							4.30	*	*	
MOLDAA 1145	A	7.40	.12	*	*	.07	.01						.02	1.20 2.15	.02	*		.27	.01	.05							.71	.07		*	*	2.70	*	
MOUNT MAIALEALE 1047	A	5.14		*	*					.08	.12	.63	.83	3.46 2.20	.39	1.02	.12	.28	.47	.51	.04		.12	2.68	.24		.43	.04			8.3916.14	7.24	*	
NIU RIDGE 1035	A	14.34	.20	*	*	.47	.10			.50	*	*	.70	2.00 2.30		*		.46	.20	.36	.10						1.10	.46		*	*	5.39	*	
N WAILUA DITCH 1051	A	19.75	.06	.05	.09	.43	.01					.17	.03	2.53 .91	.01		.24	.14	.20	.07	T		.33	.28	T					.01	4.86	9.31	*	
PH WAINIHA 1115	A	11.76		.57	.09	.38						.15	.30	1.57 .63	.09		.13	.07	.05	.04			.15	.75	.10	.17				.05	1.60	4.87	*	
PUEHU RIDGE 1040	A	5.57	.03	*	*	.20				.55			.07	.51 3.53	.98			.03	.04	.11							.60	.13		*	*		*	
PUMI 1013	A	4.99		*	*	.21							.14	1.5 1.98 1.77				.05	.06								.10	T		*	*		*	
RESERVOIR 6 1004	A	5.26		*	*	.09				.01	*	*	.13	.02 1.67 2.44				T												*	*		*	
WAILIWA 930	A	4.26		*	*																									*	*		*	
WAILIWA MOUNTAIN 990	A	28.50	.05	.20	.23	.07	.02	*	*			.01	.18	.11	.12	.98 3.55	.09	.20	.03	.03	.49	.28		.35	.28		.06	.13		*	*	28.50	*	
WAIKANI LOWER 1054	A	16.05	.03	.15	.40	.10	.02					.18	.17	.12	.14 1.63	*	.18	.05	.02	.25	.37		.28	.81	.11	.73				*	*	2.86	6.13	*
WAIKANI UPPER 1052	A	17.61		*	*					.35	*	*	.03	.12	3.31 .45			.12	.04	.10											.30	6.56	.14	*
WAILUA 943	A	5.72		*	*	.29				1.70	*	*	.03	1.06 4.00		*		.12	.04	.10										*	*	6.35	*	
WAILUA KAI 1065	A	12.59		*	*												*		.12	.04	.10										*	*		*
WAIKANA 947	A	4.12		*	*	.30				.20	*	*	.09	.05	2.30 .40		*		.03												.07	1.10	*	*
WEST LAKE 931	A	4.27		*	*					.05	*	*	.09	.05	1.46 2.20	.01	*		.03		.01										*	*		*
ISLAND OF MAUI																																		
AIEA FIELD 625 761	A	4.80		*	*								.14	.03 .20	.12	*		.05	.08	.17							.10	.17	.07	*	*	3.67	*	
BERATANIA PUMPING STA	A	6.85		*	*					.05	*	*	.03	T	.25 .94	.01	.02		.03	T											.19	3.45	*	
CAMP 84 807	A	2.15		*	*								.05	.14 1.63	*		.18	*		.07							.08	*		*			*	
CHURCH COLLEGE LAIE	A	6.35	.11	.11	.07								.05	.02	1.01		.39	.02	.39		.07					.03	.05	.04	.06		.60	1.70	1.20	*
COCODUT ISLAND 840.1	A	9.74		.25	.02					.06			.02	2.15 .24		.15		.30	.08	.16					.17	.05	.02	.62	.01		.16	5.28	*	
EWA PLANTATION 741	A	4.86		*	*								.01	.07 .38	.92			.01	.03												.83	2.61	*	
HELEMANO INTAKE 881	A	17.76		*	*								.20	*			1.77	.03	.24				.40								.63		4.93	*
HOKULOA 725.2	A	7.24		*	.08																													

HAWAII
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Total	Day of Month																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2.76	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.13	.10	*	*	*	*	*	.24	*	.53	*	*	*	1.00	*	.76	
.00																															
1.09															.33	.20		.07		.03				.15	.54	.01	1.43	.07	.10		
5.80							.20	.10	.30	.30	.11	.10			2.50	.20			.05												
2.67													.25		.28	.01					T	T				.07					2.35
2.51			T	T	T					.05					.11	.31	.05			.13	T					.02	T		1.02	1.13	
2.04	*		.01				*	*	.07		.08	.14	*	*					.86				.08	.03				.25	.92		
2.62				.42	*		*	*		*		*		*							*	*			1.20	*	*	*	*	*	
2.81											*	*	*	*	.24	*	*	*	*	*		.57	*	*	*	*	*	*	*	*	2.00
3.32													*		2.50						*	*	*	*	*	*	*	*	*	*	2.52
4.38															1.16	.01					*	*	*	*	*	*	*	*	1.07	2.12	
5.34	*	*	*	*	*	*	.08	*	*	*	*	*	*	*	.06	*	*	*	*	*	1.19	*	*	*	*	*	*	*	*	*	3.21
3.56	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.56
1.83	*	*	*	T									*	*	.69	*	*	.01	*	*	.90	*	*	*	*	*	*	*	*	.93	
3.91	*	*	*										*	*		*	*		*	*	*	*	*	*	.01	*	*	*	*	3.20	
1.55															.41	.89	.01	.20						.18	.07				1.35	.77	
10.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.63	.13	T	*	.02	*	*	*							.05	13.63	
12.53													*		.07	.24	.13	T		T				.08	.07	T	.01		9.72	.40	
12.66													*		.10	.58	.05						.10	T		.10			14.10	1.16	
5.73													*																4.10	.70	
8.10	*	.01													.26	.21	*	.03							.05	*	.02	*	*	7.60	
6.79		.13								.10					.12	.01	*							.11	.01	.22	.02	*	5.10	.93	
12.87							.07	.09		.10					.18	.23	*	.06	*	.18	.04			.21	.40	.16		*	9.70	1.45	
12.78		.06					.02	T		.08	.15				.12	.21	T		*	.09	T		.46	.17	.72	.19	.07	T	9.98	.46	
13.01	.01	.06			.04	.09	.04	.15		.12	.17		T	T	.08	.60</															

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DAILY PRECIPITATION

Continued

HAWAII
NOVEMBER 1968

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAUMANA 88.1	6.77	.13	.05																														
KAWAIIUI LOWER 193	5.31	.58							.39				.08	.11	.02	1.49	.24	.23	.10	.12	.08	.10		.15	.22	.09	.76			2.63	.57		
KEAAU 92	8.73		.11								.18	.03		.05		1.06	.16	.04		.06	.22	.17	.03	.15	.22	.09	.76			2.63	.57		
KEALAKEUA 26.2	1.27				T																												
KEHENA 181.2	5.50															.71	.13	.02	.03	.04											5.50		
KIDOLAKAA A & F 6	4.20																																
KIPA 89.2	6.32	.06	.11	T						.14	.03		.07	.11	.01	1.28	.20	.07	.06	.11	.24	.33	T	.15	.18	.18	.01			4.20			
KOHALA 179.1	1.41				.09								.02		.02	.02		.37	.02	.01	.18					.60	.10			2.22	.76		
KOHALA MAULILI 176	1.38				.03		.01						.12		.03			.35	T		.04	.03	.20	T			.70	.12					
KOHALA MISSION 175.1	3.57	.09				.02																				1.34	.13			.65	.64		
KOIAWE LOWER 196	3.35	.35							.23							.32							.45							2.00			
KONA AIRPORT 68.3	.14															.11	T	.01															
KONA VILLAGE 93.8	.28															.28	.11									.02							
KUKAIUA 222	1.65															.11		.07		.28										1.17	.02		
KUKUIHALE MIC 199	1.95															.10		.03		.15		.10								1.05	.42		
KUKUIHALE MILL 206	2.03															.07			.08											1.21	.32		
KULANI CAMP 79	2.69		.11							.05					.05	1.40	.35		.07	.03							.09			.53			
KULANI MAUKA 76	1.58													.02	.23	.84								.10					.10	.11	.28		
KULANI SCHOOL SITE 78	3.23										.19							1.61													1.43		
LANIHAU 68.2	.80			.11		.10									.09	.15	.09	.05	.05	.06	.02									.08			
MANUKA 2	2.71															.60			1.40	.17	T					.08				.46			
MAUNA KEA BEACH 98	.04															.04	1.01												.11	.29	.10		
MAUNA LOA SLOPE 085	1.55															.20																	
MIDDLE MAUWALOA 68.1	.32															.20				.12													
MIDDLE PEN 147.1	.26																														.26		
MOAULA 18	8.25																														8.25		
MOUNTAIN VIEW 91	8.61		.07						.37	.07	.09	.10	.08	1.98	.36	.09			.06	.11	.07	.01	.10	.22	.01	.17			2.38	2.27			
NAALEHU 14	2.95										.02	.07	.02	.25	1.35			.44	.37	T									.63	T			
NAPOOPOO 28	1.21																									.30							
NAULU FOREST 38.6	13.11		.02			T				.05				.77											3.82						8.45		
NIULII 179	1.24			.14	.05						.04					.03		.12	.15	.01	.17	.04	.05	.01	.02		.14	.20					
OKALA 223	2.34	.03								.01						.12	.15	.01	.17	.04	.05	.01	.02		.14	.20			1.71	.01			
OPIMIHAELE 2 24.1	3.45	T	.05	.14	T	.04	T		.02	.01				1.68	.05	.01	.05	.34	.01	T	.15	T	.38	T			.14	.38	T	.01	T		
ORCHIO LAGO EST 91.5	7.74	1.04							.19							1.88						.66								3.97			
PAAHUAU 217	2.02															.10	.01	.35	.01	.27		.09				.01			1.14	.04			
PAAUILO 221	1.38															.06			.15	T	T								1.05	.01			
PAHALA 21	5.50															.19	2.67	.40	.11	.10									2.05	.03			
PAHOA 65	11.75		.29		.06				.35	.07	.04	.11	.22	1.60	.32	.08			.29	.39	.10	.04	.37	.82	.03	.75	.02		3.15	3.02			
PAKAQ 37	7.40								.29	.08				.07	.02	.56	.23	T		.07	.51	.10		.22	.18	.27	.13		3.43	.45			
PAPAIAKOU 144.1	6.78		.17	T																													
PAPAIAKOU MAUKA 140.1	6.97	.01	.18	T					.20	.08	.08	.13	.03	.86	.18	.14	.05	.18	.27	.18	T	.15	.28	.15	.10			2.93	.79				
PEPEEKED MAWAI 144	5.49		.31						.35			.02	.03	.01	.47	.02	.11	.10	.11	.30	.06	.02	.14	.14	.05		3.00		2.70	.45			
PIIMONUA 89	3.00																																
POMAKULOA 107	.60																																
PUAKO 95.1	.16															.11	.01			.60											.04		
PUU KIH 120	2.18																														2.18		
PUU LAU 102.1	3.35																														3.35		
PUU LEHUA 73	2.00																														2.00		
PUU MALI 113	2.60																														2.60		
PUUDUKUHAU 167	.95				.10							.24				.06			.24	.01	.03	.03				.10	.11	.03					
PUU OO 82	3.12		.18						.15	.05				.03		.05	.62	.47	.03	.02	.01			.14	.21	.03	.01		.63	.52			
PUU WAAKAA 94.1	1.62					.25										.31	.01		.02											1.00			
SAOILE ROAD 1 84	5.87	.95												.03																4.92			
SOUTH POINT CORRAL 3	2.13		.12													1.79			.12						.10								
UMIKOA 118	2.02															.04	.24	.51	.15	.08										1.00			
UPOLU POINT USCG 159.2	1.53	.11								.07	.05	.14						.08	.01		.07	.15					.33	.03		.59	T		
WAIKAE SCD 88.2	7.60	.12														1.86	.05	.10		.04	.13	.08						.72	3.40	.84			

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages percent				Number of days with precipitation								Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Drection of fastest mile	Date of fastest mile	150TH MERIDIAN TIME				Trace	01-09	10-49	50-99	100-199	200 and over	Total			
							2 AM 8 AM 2 PM 8 PM													
HILO, HAWAII, WB AIRPORT	19	2.8	6.6	19	E	12+	85	78	71	87	2	7	9	1	2	1	22	50	5.2	
HONOLULU, OAHU, WBFC	7	6.5	10.5	36	NE	28	83	77	61	76	10	1	1	1	3	0	16	63	4.6	
KAHULUI, MAUI, WB AIRPORT	5	6.8	9.5	30	NE	29+	85	78	59	80	3	4	2	0	0	2	11	73	3.4	
LIHUE, KAUAI, WB AIRPORT	7	4.4	9.6	32	NE	28	88	85	77	87	2	8	5	2	1	1	19	54	5.7	

DAILY TEMPERATURES

HAWAII
NOVEMBER 1968

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	74 50	75 55	72 60	72 53	74 47	70 47	73 57	73 60	73 56	72 53	71 51	68 55	64 59	71 53	72 48	65 49	72 51	72 56	73 55	72 52	71 47	69 48	70 56	71 56	71 54	69 50	73 51	62 52	60 57	62 57	70.2 53.2	
KILAUEA POINT 1133	MAX MIN	87 74	88 73	86 73	86 72	85 71	89 73	90 74	89 73	87 73	84 73	85 75	85 69	79 69	86 72	86 72	79 76	84 72	89 72	87 72	83 73	83 75	79 73	83 71	80 73	82 71	82 72	89 72	87 72	74 68	75 68	84 68	84.1 72.4
LIMUE #8 4P 1020.1	MAX MIN	82 70	83 74	82 74	82 72	82 69	84 47	83 63	82 63	82 74	81 75	84 69	64 70	78 69	82 67	81 66	80 66	81 66	82 68	83 72	81 76	81 75	81 74	81 74	80 70	80 70	80 70	82 68	81 67	75 67	75 68	79 68	81.0 70.3
MAKAHUEA POINT 940.1	MAX MIN	84 70	86 72	86 73	86 74	86 78	87 78	87 72	88 90	87 86	85 75	83 69	86 70	66 68	88 68	81 72	80 76	87 70	85 75	88 78	84 74	82 69	82 77	84 70	85 74	85 74	82 71	86 71	81 72	75 69	81 70	77 68	66.1 72.8
MAHA 1026	MAX MIN	87 66	87 67	88 67	88 66	86 67	87 67	88 70	88 73	87 72	87 70	88 66	88 72	86 68	82 67	86 69	84 66	89 67	84 67	86 67	85 67	85 70	85 66	86 64	85 66	85 67	84 67	85 68	85 68	86 71	74 70	83 69	85.8 68.0
NIU RIDGE 1035	MAX MIN	83 63	84 64	84 64	85 64	84 63	84 64	85 65	85 65	85 65	84 65	84 62	82 69	80 65	79 65	80 65	79 63	80 63	80 62	80 61	79 60	80 60	79 60	79 60	78 61	79 60	80 61	82 61	81 62	80 63	79 61	81.4 63.0	
WAIKAI LOWER 1054	MAX MIN	83 63	83 66	83 68	83 67	83 62	84 61	85 62	86 58	85 61	86 62	85 62	84 62	78 66	78 66	78 66	84 60	84 67	85 61	82 67	84 67	83 65	81 61	82 67	82 66	84 63	83 63	87 62	84 63	84 61	78 60	83.0 63.8	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	89 68	89 70	89 68	85 68	86 66	86 69	86 65	88 68	86 68	85 68	87 66	85 69	85 72	79 72	87 67	86 72	86 69	87 66	84 70	88 68	86 67	86 65	86 69	85 68	86 68	85 69	89 65	84 67	76 68	76 67	85.4 70.9	
HONOLULU W8FC 703	MAX MIN	89 70	90 73	89 76	90 74	88 69	85 70	88 71	90 68	88 75	89 73	87 69	87 72	86 75	80 71	86 71	87 70	87 73	86 68	84 73	89 71	86 71	86 73	87 73	87 73	87 73	86 71	85 67	86 67	75 69	78 68	86.3 71.2	
HONOLULU SUBSTA 704	MAX MIN	85 74	85 77	85 77	86 76	84 73	83 72	86 74	84 73	83 75	83 73	85 74	83 74	83 76	79 72	84 72	85 75	85 73	85 75	82 75	84 75	82 75	82 76	82 74	83 75	83 74	84 72	83 71	82 67	76 69	76 68	83.1 73.5	
KAHUKU 912	MAX MIN	85 76			85 73	85 67	87 66	86 66	86 65			87 67	85 67	87 67	85 68	83 67				87 67	80 73	84 73	83 73	76				83 71	83 72	84 66		82.9 69.8	
KANEHE MAUKA 781	MAX MIN	85 73	86 73	84 75	86 74	85 70	84 68	85 68	85 71	82 71	84 70	86 71	87 71	85 72	77 71	83 70	83 73	85 70	84 70	79 74	83 73	82 71	82 72	81 70	79 71	82 70	83 70	85 71	81 70	74 68	78 69	82.9 71.0	
LUALUALEI 804	MAX MIN	88 71	88 76	88 70	86 69	86 65	65 67	86 67	88 67	87 68	84 73	86 68			90 67	71 68	85 67	64 74	63 67	87 73	83 71	67 70	86 72	83 73	84 70	85 70	86 68					85.2 69.8	
MAKAPOU POINT 724	MAX MIN	86 75	81 75	86 74	82 75	83 74	86 74	82 75	80 74	86 75	80 74	85 75	83 73	80 74	85 74	78 72	80 75	80 73	79 75	85 73	80 75	78 76	80 74	80 72	80 73	80 73	79 76	85 73	81 69	79 70	76 70	81.7 73.8	
OPAEULA 870	MAX MIN	85 65	87 66	85 64	84 64	86 64	85 65	86 65	86 64	84 66	86 64	80 67	86 67	84 68	80 68	78 64	84 66	84 66	83 63	84 63	75 65	84 64	82 67	84 69	81 67	79 64	83 66	81 66	77 66	77 70	79 71	82.7 65.6	
PRI MAHIWA 820.2	MAX MIN	87 65			88 65	88 62	88 62	88 63	87 61	88 62	86 66	88 63	87 63	86 66	81 60	78 65	82 64	83 64	85 64	83 66	73 66	84 65	83 64	83 64	82 68	84 66	85 66	85 62	84 64	80 62	74 66	84.1 64.4	
WAILUA 847	MAX MIN	88 64	89 65	88 66	88 66	89 64	88 63	87 66	86 63	88 64	85 66	88 66	87 67	88 71	83 70	81 67	84 68	86 68	83 68	86 65	83 64	86 64	84 63	84 68	83 66	85 66	85 67	84 66	81 66	75 68	85.0 66.0		
WAIKIKI 717.2	MAX MIN	88 72	88 74	89 76	87 72	89 68	88 66	88 71	88 66	88 74	87 72	88 70	89 71	89 74	87 75	82 71	87 70	87 74	89 67	88 73	88 75	87 73	85 75	86 73	86 75	85 70	82 70	87 66	87 67	86 69	78 69	86.7 71.3	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	85 71	86 72	85 76	85 72	86 65	86 66	87 66	86 68	85 67	85 73	85 70	85 68	87 66	86 68	82 68	86 69	84 75	85 67	83 73	80 70	83 68	83 69	83 68	83 76	83 66	83 68	83 66	84 69	77 64	80 69	84.0 69.2	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	80 66	79 64	80 63	81 66	80 64	80 65	82 63	82 66	82 63	81 65	82 63	81 64	85 64	84 63	83 66	78 62	80 61	82 64	78 65	76 66	77 65	78 66	77 66	76 65	78 65	77 66	80 64	78 62	75 65	74 64	79.5 64.4	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	68 42	65 44	69 47	71 50	69 43	68 49	72 47	68 46	67 44	68 43	69 49	70 45	65 40	65 48	60 50	66 46	67 44	68 46	66 49	65 46	65 43	67 45	68 48	63 43	65 47	64 43	62 41	62 43	58 43	66.1 45.7		
HALEAKALA SUMMIT 338.4	MAX MIN	59 44	60 42	55 43	63 40	63 46	65 46	63 46	61 45	63 42	62 44	63 41	60 43	60 40	56 42	49 42	55 39	58 45	61 48	58 41	62 44	61 42	60 38	57 38	52 39	48 39	47 39	53 40	55 39	56 41	58.2 42.3		
MAHA AIRPORT 355	MAX MIN	86 69	86 71	85 69	86 71	86 69	86 71	86 67	87 69	87 72	85 71	85 71	85 72	86 73	86 74	86 72	84 70	84 70	85 74	85 69	85 71	85 71	85 69	85 69	82 70	83 73	83 69	84 73	83 67	76 68	70 68	84.7 70.2	
KAANAPALI AIRPORT	MAX MIN	86 58	87 71	87 70	88 70	86 69	86 69	85 68	89 68	87 72	86 70	86 70	85 70	86 69	86 73	83 70	85 69	85 70	86 70	85 69	85 70	85 69	85 69	88 67	88 67	86 67	87 67	86 67	84 67	84 69	82 68	85.6 69.4	
KAHULUI #8 4P 398	MAX MIN	99 64	90 66	91 67	91 62	90 63	87 63	90 64	90 64	90 69	90 65	91 64	91 68	92 63	83 71	87 70	87 72	87 62	87 65	89 65	89 66	87 61	87 61	86 65	86 65	88 68	88 70	86 63	86 63	80 63	80 68	88.3 64.4	
KAILUA 446	MAX MIN	82 65	81 65	81 80	80 70	81 63	81 65	83 65	83 65	81 61	81 67	81 67	81 65	82 65	81 68	82 65	84 66	81 66	80 65	84 66	81 69	81 68	80 68	80 68	78 67	78 67	76 67	81 63	81 67	74 63	80.7 66.2		
KEAWAKAPU BEACH 260.2	MAX MIN	91 64	90 64	92 67	91 65	92 65	91 67	88 65			92 66	90 66	88 68	88 65	91 65	91 69	87 69	88 64	87 66	90 66	93 64	92 64	92 65	92 65	92 65	85 65	88 65	90 67	89 65	88 70	82 68	89.7 66.0	
KULA SANATORIUM 267	MAX MIN	76 57	75 56	74 55	75 55	75 56	78 58	74 57	74 55	74 56	73 57	74 58	75 59	75 56	77 53	72 53	74 62	74 57	76 56	72 56	76 57	75 58	76 55	74 53	74 54	73 55	73 60	72 59	75 56	71 58	74 58	74.4 56.8	
LAHAINA 361	MAX MIN	87 69	88 70	86 69	89 68	87 68	87 69	87 68	87 68	87 70	88 72	88 72	88 68	88 68	88 71	87 69	87 68	88 68	87 69	86 69	87 69	87 69	87 69	86 69	86 70	87 69	86 68	86 68	86 68	82 63	82 68	87.1 69.9	

DAILY TEMPERATURES

HAWAII
NOVEMBER 1968

Continued

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
WAILUKU 392	MAX MIN	86 72	88 71	89 70	90 84	89 65	89 66	87 66	90 66	89 71	90 66	90 65	90 66	91 64	92 66	83 69	88 70	84 72	85 67	86 68	86 71	86 70	84 72	84 71	86 70	85 71	84 71	82 64	87 67	86 70	83 69	87.0 68.3	
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX MIN	85 66	84 67	85 66	84 64	86 63	85 65	85 64	86 63	85 65	85 66	83 66	87 66	86 65	87 68	84 69	85 68	83 67	84 65	84 66	82 67	85 65	83 58	83 69	83 66	83 66	84 66	85 64	85 66	83 65	83 66	84.4 55.8	
HAWAII VOLCNS NP HQ 54	MAX MIN	71 54	72 52	72 55	70 54	70 50	73 52	74 51	75 51	71 51	67 53	71 53	73 56	68 53	71 60	68 59	73 53	71 59	73 57	71 58	71 53	70 52	70 52	68 56	70 56	71 55	72 52	71 52	73 52	69 52	69 52	71.0 53.9	
HILO WB AIRPORT 87	MAX MIN	84 67	85 67	86 66	86 66	86 68	87 65	86 67	85 69	86 69	86 68	86 69	86 69	85 69	84 71	83 72	85 70	85 69	84 68	85 71	84 70	81 68	82 66	83 66	84 67	84 66	85 66	86 66	85 67	82 70	73 69	84.3 68.1	
KAINALIU 73.2	MAX MIN	83 66	83 65	83 65	82 64	82 64	80 61	82 62	82 63	83 63	81 65	83 64	83 63	82 64	81 64	81 68	80 65	81 65	81 63	78 63	80 64	80 64	81 65	81 63	81 63	80 63	80 64	82 63	81 63	82 65	80 65	81.3 54.1	
KAMUELA 192.2	MAX MIN	78 60	75 53	80 57	77 60	77 53	79 50	81 49	80 47	76 51	78 58	76 50	80 49	82 53	82 50	83 49	80 63	74 62	81 62	80 55	74 60	75 60	76 58	76 52	74 56	80 58	76 55	82 50	81 50	79 54	80 63	78.4 54.9	
KAMUELA AIRPORT 191	MAX MIN	77 49	78 50	79 49	78 53	77 53	79 50	79 51	80 50	80 49	78 53	78 52	78 51	78 51	82 48	79 53	76 60	79 52	76 47	79 42	74 42	75 44	75 51	76 42	75 43	76 51	75 47	76 43	80 45	76 49	77.9 59.4		
KEAAU 92	MAX MIN	87 66	83 65	88 65	87 65	87 66	87 66	89 66	89 66	87 66	87 66	87 66	87 66	87 66	85 69	80 70	88 66	88 66	88 66	87 67	86 65	86 65	84 67	86 66	86 66	86 66	86 65	86 65	87 65	87 65	87 65	87.0 56.3	
KEALAKEKUA 26.2	MAX MIN	83 68	83 66	81 66	82 67	83 66	80 64	81 64	82 65	82 66	81 68	83 66	81 66	83 66	81 68	81 66	81 66	80 65	81 65	81 66	79 66	80 66	80 66	82 67	82 64	82 65	80 64	82 65	82 66	82 66	80 66	81.4 63.9	
KUHALA MISSION 175.1	MAX MIN	83 70	82 71	83 70	83 70	84 65	84 67	84 64	84 66	83 67	84 71	82 67	85 67	85 67	87 67	88 70	81 70	81 67	83 67	82 67	83 71	83 69	81 69	80 71	80 71	80 71	81 68	80 67	83 67	83 69	79 69	83.1 68.3	
KONA AIRPORT 68.3	MAX MIN	86 68	85 68	88 68	86 68	86 68	84 68	84 68	85 68	86 68	86 68	87 67	84 67	86 67	85 65	85 65	85 67	86 67	84 66	84 66	84 68	85 68	85 68	85 67	85 67	84 66	84 67	86 67	85 67	85 72	85.2 67.6		
KULANI CAMP 79	MAX MIN	67 45	67 45	68 45	67 41	67 40	70 44	72 40	72 40	72 40	68 46	68 46	70 45	66 45	72 52	71 53	70 53	70 48	70 48	67 52	67 50	66 45	66 45	66 45	65 45	61 50	69 49	71 48	70 48	70 45	68.4 47.0		
MAUNA KEA BEACH 98	MAX MIN	87 73	87 72	88 72	95 75	90 71	88 70	87 68	87 69	87 74	88 71	88 70	86 71	87 71	87 74	87 74	92 72	86 74	86 77	86 72	86 71	93 72	90 71	90 74	87 74	87 72	87 70	87 71	90 75	92 75	98.5 72.2		
MAUNA LOA SLOPE 085	MAX MIN	62 40	62 40	61 43	59 41	58 40	56 39	55 34	59 38	56 42	60 39	58 42	54 36	52 37	50 35	54 30	58 35	57 38	58 40	58 38	58 38	58 35	58 35	56 36	53 36	54 35	50 35	52 35	48 34	48 37	55.5 38.1		
MOUNTAIN VIEW 91	MAX MIN	80 60	80 60	81 59	81 59	80 59	82 60	81 60	82 59	82 59	79 60	79 60	81 62	81 63	81 63	81 66	80 65	80 62	81 61	82 63	79 61	79 63	78 62	77 62	77 62	80 63	79 60	82 60	83 60	76 62	80.1 61.5		
NAALEHU 14	MAX MIN	84 68	84 68	84 69	84 69	82 69	83 70	84 70	84 69	84 69	83 70	83 70	84 69	81 71	83 69	83 69	83 69	82 67	82 67	83 68	83 71	80 70	82 68	83 68	84 69	82 69	83 70	83 69	83 69	83 67	83.0 69.0		
OKALA 223	MAX MIN	83 70	84 69	84 71	84 72	84 68	85 68	85 68	85 69	84 71	84 69	85 69	84 70	84 68	84 69	85 68	85 70	85 70	84 70	83 71	83 71	83 70	80 71	83 72	83 75	82 73	81 70	84 69	85 68	82 71	83.4 69.5		
OPIHIHOLE 2 24.1	MAX MIN	78 62	83 62	79 62	81 61	77 61	81 59	81 59	81 59	79 60	80 59	81 60	82 60	82 62	81 60	80 63	78 61	79 62	78 62	78 61	78 61	77 62	77 62	79 62	79 60	79 60	80 60	80 60	79 60	77 63	78 64	79.6 61.1	
PAHALA 21	MAX MIN	81 64	84 66	83 65	83 61	81 62	81 62	84 63	84 65	83 63	83 69	83 62	83 66	81 66	81 68	81 66	81 66	81 68	81 65	81 64	81 62	81 63	85 63	85 64	82 66	81 63	82 63	83 63	81 63	81 64	81 64	82.1 54.5	
UPOLU POINT USCG 159.2	MAX MIN	85 73	85 73	85 72	85 71	85 72	85 73	87 72	86 70	83 72	85 73	85 71	89 73	87 73	88 74	88 74	87 74	84 72	85 72	85 73	84 73	84 72	84 72	82 71	82 71	82 71	83 71	83 71	86 72	84 72	81 72	85.0 72.3	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIIHUE WB AP 1020.1	EVAP	-	.17	.30	.23	.21	.15	.23	.15	.23	.25	.20	.20	.35	.21	.23	.22	.12	.24	.20	.15	.23	.25	.25	.33	.19	.26	.20	.21	.03	.00	6.208	
	WIND	*	115	120	99	76	54	67	58	79	142	108	109	97	53	58	51	134	62	114	103	114	133	168	157	80	80	59	49	285	119	2943	
	MAX	-	89	92	91	92	92	89	90	93	90	86	89	90	84	90	92	84	91	89	84	90	95	86	86	90	92	91	90	72	80	88.6	
	MIN	-	71	72	72	72	68	68	68	71	71	70	69	70	69	67	67	67	69	68	70	72	68	68	72	69	70	68	68	66	68	69.2	
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.15	.21	.22	.20	.19	.23	.16	.18	.19	.18	.21	.20	.16	.14	.09	.16	.18	.17	.04	.12	.15	.16	.30	.15	.05	.15	.13	.18	.09	-	4.908	
	WIND	21	33	29	20	24	15	23	20	22	35	21	19	35	46	13	17	27	17	9	16	21	27	37	45	18	23	12	18	48	32	743	
	MAX	89	92	92	93	92	92	94	93	92	87	93	93	94	70	80	94	90	93	86	87	89	88	88	89	92	90	91	90	86	79	89.9	
	MIN	69	69	70	70	69	69	69	69	68	69	69	70	73	73	70	70	70	70	71	70	69	66	66	69	70	70	68	68	69	69	69.4	
* * *																																	
ISLAND OF HAWAII																																	
HILO WB AIRPORT 87	EVAP	.17	.16	.26	.22	.29	.23	.34	.19	.19	.24	.25	.19	.16	.03	.11	.24	.12	.23	-	.20	.10	.06	.07	.13	.12	.26	.21	.12	.07	-	5.318	
	WIND	40	60	30	54	52	68	86	51	49	56	85	78	76	35	43	63	40	53	42	35	36	29	35	44	44	54	55	47	41	54	1535	
	MAX	88	88	90	88	87	98	90	89	88	87	87	83	85	84	82	88	88	90	92	84	87	82	84	82	83	86	86	86	82	71	86.0	
	MIN	65	69	64	64	63	64	65	66	62	67	67	67	67	70	69	70	69	67	67	68	60	65	64	68	67	66	65	66	68	66	66.4	

See Reference Notes Following Station Index

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NOVEMBER 1961

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STATION INDEX

HAWAII
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CONTINUED													NOVEMBER 1968												
STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)										TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII																									
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A		PUNA SUGAR CO	PUU LAHAU 102-1	A	8452	05	HAMAKUA	5	19 50	155 36	7440	MO			STATE DIV OF FISH-GAME	
NAALEMU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A		HUTCHINSON SUGAR CO	PUU LEHUA 73	A	8460	04	N KONA	4	19 34	155 46	4880	MO			GREENWELL RANCH CO	
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395	7A			KONA EXPERIMENT STA	PUU MAHI 113	A	8515	01	HAMAKUA	1	19 55	155 26	6960	MO			KUKAIAU RANCH CO	
NAULU FOREST 38.6	A 6731	02	PUNA	2	19 19	155 08	1400	VAR			HAWAII VOLCANOES NAT PK	PUUOAHU 167	A	8541	01	N KOHALA	1	19 47	155 10	4880	TA			OWHAI DIVISION LTD	
NIULI 179	A 6806	01	N KOHALA	1	20 14	155 45	75	6A			KOMALA SUGAR CO	PUU OO 82	A	8550	02	S MILO	2	19 44	155 23	6340	TA			W. H. SHIPMAN, LTO	
OKALA 223	A 7131	02	N MILO	2	20 01	155 17	430	7A	7A		LAPOHOPONO SUGAR CO	PUU WAKAHA 94-1	A	8555	05	N KONA	5	19 47	155 51	2520	TA			DILLINGER RANCH INC	
OPIMAHUA 24.1	A 7186	04	S KONA	4	19 18	155 53	1270	7A			MISS C LONARD	SADDLE POINT 3-84	A	8590	02	S MILO	2	19 42	155 12	2340	MO			BUREAU OF WTR SUPPLY	
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445	VAR			BOARD OF WATER SUPPLY	SOUTH POINT CORRAL 3	A	8675	03	KAU	3	18 57	155 41	400	WT			HUTCHINSON SUGAR CO	
PAUHAU 217	A 7204	01	HAMAKUA	1	20 05	155 26	415	7A			PAUHAU SUGAR CO	S POINT TRUCKING STA	A	8679	03	KAU	3	18 57	155 41	305	MO			FEDERAL ELECTRIC CO	
PAUULO 221	A 7312	01	HAMAKUA	1	20 03	155 22	800	7A			HAMAKUA MILL CO	UMIKOA 118	A	8780	01	HAMAKUA	1	19 59	155 23	3420	TA			KUKAIAU RANCH CO	
NEW STATONS																									
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A		HAWAIIAN AGP CO	URUPEI POINT USCG 159-2	A	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670	6A			PUNA SUGAR COMPANY	WAIKAEA SLD 88-2	A	9025	02	S MILO	2	19 40	155 08	1050	TA			SHIMICHI KAMESHIO	
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000	MO			HAWAIIAN RANCH CO. INC.	WAIKARUNOA 178-6	A	9350	01	N KOHALA	1	20 08	155 47	3630	MO			KAHUA RANCH	
PAPAIAKOU 144.1	7711	02	S MILO	2	19 47	155 06	200	7A			MAUNA KEA SUGAR CO														
PAPAIAKOU MAUKA 140.1	7721	02	S MILO	2	19 47	155 08	1270	7A			MAUNA KEA SUGAR CO														
PEPEKEU MAKA 144	8000	02	S MILO	2	19 51	155 05	100	7A			PEPEKEU SUGAR CO														
PIMONUA 89	8051	02	S MILO	2	19 44	155 10	1730	MO			STATE DIV OF FORESTRY														
POMAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511	VAR			STATE DIVISION OF PARKS	AHUIMANU LOOP 839-12	A	0055	01	KOOLAPOKO	1	21 26	157 51	320					GIN MITCHELL
PUKAO 95.1	A 8186	05	KOHALA	1	19 59	155 50	5	6A			EPWIN H. PAPP	PUPUPA HEIGHTS 896-4	A	8342	01	WAILUA	4	21 39	158 02	900					JACK N. WHEELER
PUE KHE 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750	MO			KUKAIAU RANCH CO														

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are term of degree. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station name in the several tables.

DELAYED DATA AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute wind speed. This station is not equipped with an instrument to measure fastest mile data.
- Amount included in following measurement, time distribution unknown.
- A The letter "A" shows following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletin for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in the "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly, usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

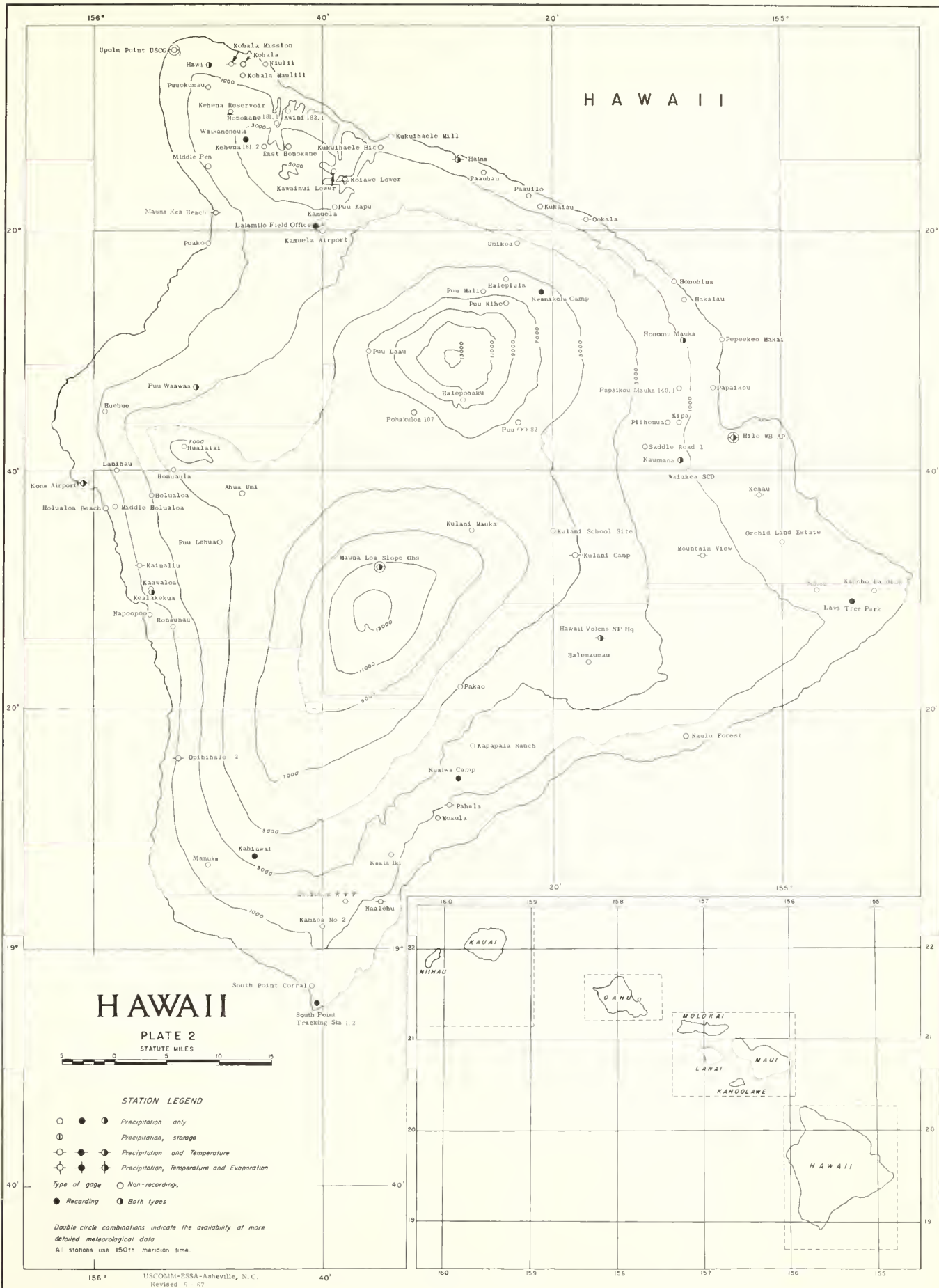
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

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USCOM-ESSA-ASBVILLE-3/3/69-890





CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE

MAURICE H. STANS, Secretary

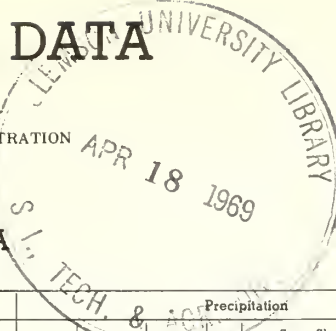
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

DECEMBER 1968

Volume 64 No. 12

CLIMATOLOGICAL DATA



Station		Temperature										Precipitation														
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet		No. of Days					
											Max.	Min.	31° or Above	31° or Below					31° or Below	31° or Below	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * * ISLAND OF KAUAI																										
ANAHOLA 1111		A													32.58	27.18	14.90	1	.0	0						
KANALOHULU 1075		A	65.4M	49.8M	57.6M		73	10	40	30		0	0	0	21.77		15.75	1	.0	0						
KAPAA STABLES 1104		A													28.25				.0	0						
KILAUEA FIELO 17 1135		A													14.44	4.93			.0	0						
KILAUEA POINT 1133			79.6	68.9	74.3		87	1	64	13+		0	0	0	9.86		2.95	24	.0	0		13	7	4		
KOLOA 936		A													25.43	17.81			.0	0						
LIHUE W8 AP 1020.1		R	76.5	65.0	70.8	- 1.4	82	6	59	29		0	0	0	22.91	17.73	11.24	1	.0	0		11	7	4		
MANA 1026			81.0M	64.2M	72.6M	.5	86	12	60	20+		0	0	0	14.40	11.10	3.67	1	.0	0		12	7	5		
N WAILUA OITCH 1051		A													43.77		19.00	1	.0	0						
PH WAINIHA 1115															15.77	2.18	3.00	25	.0	0		15	10	6		
PUEHU RIDGE 1040															19.24				.0	0						
WAHIAWA 930		A													15.54	11.05			.0	0						
WAIAHI LOWER 1054			78.0	58.1	68.1		85	10	50	28+		0	0	0	26.98		8.97	1	.0	0		15	10	8		
WAIMEA 947															18.95	15.60	5.25	1	.0	0		11	10	8		
ISLANDO					68.7										22.14				.0	0						
* * * ISLAND OF OAHU																										
HONOLULU OBSERV 702.2		R													10.14		3.64	25	.0	0		11	6	2		
HONOLULU W8FC 703		A	79.7	65.7	72.7	- .9	84	7	59	30+		0	0	0	9.63	6.64	2.20	25	.0	0		11	8	3		
KAHUKU 912															10.16	5.88			.0	0						
KANEHE MAUKA 781			78.3	67.7	73.0	.9	85	18+	60	27		0	0	0	14.56	7.71	4.60	24	.0	0		12	7	6		
KOOLAU OAH 833															14.29	4.29	3.23	25	.0	0		14	8	5		
LUALUALEI 804							88	2	60	27+		0	0	0	14.69				.0	0						
MAKAPUU POINT 724			76.6M	67.7	72.2M		84	10	61	27		0	0	0	9.57	6.26	1.70	9	.0	0		12	7	4		
NUUANU RES 4 783															12.32	1.26	3.34	25	.0	0						
OPAELA 870		A													4.15	- 2.82			.0	0						
PALOLO VALLEY 718															20.22	6.91	3.24	25	.0	0		14	12	9		
PRI WAHIAWA 820.2		A	77.9M	61.4M	69.7M		87	10	55	31+		0	0	0	14.83				.0	0						
PUNALUU 884		A													13.90				.0	0						
WAHIAWA OAH 863		A													13.85				.0	0						
WAIAHOLE 837		A													20.71	6.42			.0	0						
WAIALUA 847		A	80.7	63.6	72.2	1.0	87	24	57	6		0	0	0	9.40	5.46			.0	0						
WAIKIKI 717.2			81.2	66.5	73.9		85	25+	58	29		0	0	0	9.53		2.00	25	.0	0		11	6	5		
WAIIPAHU 750		A													9.86	6.32			.0	0						
ISLANDO					72.3										12.32				.0	0						
* * * ISLAND OF MOLOKAI																										
KUALAPUU 534		A													15.01	10.75	2.89	13	.0	0						
HAPULEHU 542															8.36	4.15	1.48	24	.0	0		12	7	4		
MAUNALO A 511															12.35	8.85	2.80	17	.0	0						
MOLOKAI AP 524			77.6	66.1	71.9		83	12+	59	31		0	0	0	9.93		1.75	20	.0	0		15	8	4		
ISLANDO					71.9										11.41				.0	0						
* * * ISLAND OF LANAI																										
LANAI CITY 672		A	72.8	61.8	67.3	.8	82	11	57	29		0	0	0	8.67	4.95	2.47	26	.0	0		15	4	2		
ISLANDO					67.3										8.67				.0	0						
* * * ISLAND OF MAUI																										
HALEAKALA B E S 434		A	60.3	42.7	51.5		70	31	32	26		0	0	1	0	13.32	2.86	3.21	13	.0	0		15	8	3	
HALEAKALA RS 338															9.14		1.95	26	.0	0		12	6	3		
HANA AIRPORT 355			79.7	67.2	73.5		84	11+	60	30+		0	0	0	8.41		1.33	26	.0	0		14	7	2		
HONOKOHUA 493		A													8.94	4.29			.0	0						
KAANAPALI AIRPORT			80.4	66.8	73.6		86	12	61	31+		0	0	0	8.24		1.88	26	.0	0		11	7	3		
KAHULUI W8 AP 398		R	80.7	64.3	72.5	- .2	87	7	56	27		0	0	0	7.07	4.37	1.97	25	.0	0		12	6	1		
KAILUA 446			77.4M	62.5M	70.0M	1.1	83	6+	57	30		0	0	0	17.68	5.83	3.80	13	.0	0		17	8	6		
KEANAE 346		A													31.55	9.23			.0	0						
KIPAHULU 258															8.22	- 2.69	1.48	18	.0	0		17	7	2		
KULA SANATORIUM 267			69.9	55.5	62.7	.4	74	19+	46	30		0	0	0	11.08	8.05	3.00	26	.0	0		16	6	5		
LAHAINA 361			82.1	66.5	74.3		87	12	59	31+		0	0	0	7.05	4.76	1.82	26	.0	0		10	6	1		
PAIA 406															8.04	3.82	1.70	26	.0	0		12	8	2		
WAILUKU 392			80.5	65.4	73.0	.4	86	10+	61	31+		0	0	0	13.01	8.69	2.78	25	.0	0		14	9	4		
ISLANDO					68.9										11.67				.0	0						
* * * ISLAND OF HAWAII																										
HAUNA 214			79.5	63.2	71.4	1.2	87	3	59	30		0	0	0	18.39	10.69	4.82	13	.0	0		12	7	6		
HAWAII VOLCNS NP HQ 54		R	66.1	53.2	59.7	1.0	72	11+	46	30		0	0	0	20.54	10.40	3.00	1	.0	0		15	11	7		
HILO W8 AIRPORT 87		A	80.9	66.5	73.7	2.2	87	16+	60	12		0	0	0	24.82	9.64	6.70	13	.0	0		17	11	8		
HUEHUE 92.1															6.64	4.28			.0	0						
KAINALIU 73.2			78.1	62.2	70.2		81	10+	50	26		0	0	0	8.29	5.28	2.67	18	.0	0		10	4	3		
KAMUELA AIRPORT 191			73.7	49.8	61.8		79	10+	41	30		0	0	0	4.14		.78	17	.0	0		10	2	0		

CLIMATOLOGICAL DATA

HAWAII
DECEMBER 1968

Continued

Station		Temperature											Precipitation											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure from Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
											Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											32° or Above	31° or Below	32° or Below	31° or Below										
KEAAU 92	83.0	64.2	73.6	2.6	88	24+	60	31		0	0	0	0	32.59	16.42	7.33	14	.0	0		19	11	9	
KEALAKEKUA 26.2	78.9	63.7	71.3		82	15+	59	26		0	0	0	0	7.95		2.30	18	.0	0		8	4	3	
KONA AIRPORT 68.3	82.5	67.7	75.1		86	9	63	29		0	0	0	0	3.91		1.30	18+	.0	0		8	6	3	
KUKUIHAELE HIC 199														15.33		3.62	5	.0	0		14	6	4	
KULANI CAMP 79	63.8M	45.6M	54.7M		72	8	33	31		0	0	0	0	15.11	6.11	3.10	18	.0	0		16	8	6	
MAUNA KEA BEACH 98	84.3	68.9	76.6		90	15	62	30		1	0	0	0	4.11		1.12	18	.0	0		7	3	1	
PAHALA 21	78.7	62.9	70.8	.7	83	9	59	14		0	0	0	0	13.59	9.16	2.64	18	.0	0		14	9	5	
POHAKULOA 107														4.26				.0	0					
PUNAKO 95.1														3.51		1.66	18	.0	0				1	
PUU WAAWAA 94.1														8.19	6.49	2.73	3	.0	0		11	5	3	
UMIKOA 118														15.20	3.71	3.60	5	.0	0				5	
WAIKAE SCD 88.2														28.19		5.32	14	.0	0		18	12	9	
ISLAND			69.0											13.15				.0						

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 90° ON THE 15TH AT MAUNA KEA BEACH 98, HAWAII

LOWEST TEMPERATURE: 28° ON THE 26TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 45.48 INCHES AT PAHOA 65, HAWAII

LEAST TOTAL PRECIPITATION: 4.11 INCHES AT MAUNA KEY BEACH 98, HAWAII

GREATEST ONE-DAY PRECIPITATION: 19.00 INCHES ON THE 1ST AT N WAILUA DITCH 1051, KAUAI

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages - percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150TH MERIDIAN TIME				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
							2 AM 8 AM 2 PM 8 PM												
HILO, HAWAII, W8 AIRPORT	22	2.3	6.7	27	NW	29	89	83	73	86	4	2	6	3	3	5	23	25	7.6
HONOLULU, OAHU, WBFC	4	3.4	9.9	35	NE	13	88	88	67	81	5	4	3	5	2	1	20	53	6.1
KAHULUI, MAUI, W8 AIRPORT	8	2.0	9.1	27	E	14+	89	87	70	84	2	5	6	5	1	0	19	55	6.7
LIHUE, KAUAI, W8 AIRPORT	3	1.7	9.1	26	E	14+	87	86	75	83	3	6	4	3	1	3	20	39	6.7

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

What had been a relatively uneventful November was abruptly interrupted on Thanksgiving Day by a severe wind- and rainstorm, which lasted into December and ushered in a succession of damaging weather events.

At mid-morning on November 28, a fast-moving cold front followed by intense high pressure arrived on Kauai, accompanied by gale-force north-to-northeast winds. The strongest winds, which occurred after the frontal passage, heavily damaged the banana crop and blew down some trees and branches, causing scattered power failures. Makaha Ridge (elevation 1614 feet) recorded a peak gust of 92 m.p.h. at 1:43 p.m., and Kilauea Point a 1-minute average east wind of 63 m.p.h. at 8 p.m. Two waterspouts were sighted off Hanalei at 8:10 a.m. in the vicinity of the front. Rains of 4 to 8 inches occurred the next day in many parts of north and east Kauai.

The front reached Oahu the afternoon of the 28th, replacing brilliant blue skies by sudden heavy showers which drenched more than 20,000 spectators at the Thanksgiving Day football games in Honolulu Stadium. Winds were strongest to the lee of the mountains. Gusts, which reached 47 m.p.h. at Honolulu Airport, downed some trees and branches resulting in scattered power outages and heavily damaged plantings of sweet corn, lettuce, and snap beans. Twenty-four-hour rainfall ranged from 1-1/2 to 3 inches on the coastal plains to over 9 inches at the head of some of the leeward valleys. Minor flooding occurred in lowlands and in streets in downtown Honolulu.

Molokai and Lanai had northeasterly winds of 40 to 50 m.p.h. during the evening of the 28th after the front passed.

On Maui some trees and branches were blown down and stands of tomatoes and snap beans moderately bruised, but wind damage appears to have been relatively light. Rainfall varied widely, being heaviest on the northern and eastern slopes, which faced the post-frontal winds. The Haleakala Ranger Station, at an elevation of 7030 feet, recorded 14.10 inches in 24 hours ending the morning of the 29th, the greatest total reported on Maui.

Before reaching Hawaii the front became stationary, but enough rain fell on the Waimea area to ease the lengthy water shortage there and permit restrictions to be lifted.

Late on the 30th and early on December 1 a small low pressure center, which had formed on the stationary front in the vicinity of Molokai, brought torrential rains and severe flooding to eastern Kauai, where a dozen stations reported 24-hour totals of 10 inches or more. An inch in 10 minutes fell at Kapaa Stables and 4 inches in an hour at Anahola. Roads were littered with debris, and part of the new 3-lane highway at Kapai washed out. Field erosion was heavy, and considerable silting and flooding damage was done to young sugarcane. Flood waters cascaded through the grounds of two major hotels near Lihue, dropping debris into swimming pools, washing away retaining walls and eroding beaches. Preliminary estimates placed damage on Kauai at \$156,000 to public property (roads, cleaning up, etc.), \$179,000 to agriculture, and \$43,000 to other private property.

During December 5 and 6, large northerly swell from an intense storm near Alaska crashed onto exposed beaches and coasts. On Hawaii Island it left boulders and pools of sea water at Onekahakaha Beach, about 4 miles from Hilo, and washed across the nearby roadway. On Maui, swell of up to 20 feet closed Kahului Harbor on the 5th. At Napili Beach sea water reached 150 feet above the usual high-tide mark and swept into the swimming pool and through the ground floor of a hotel there, and another at Kaanapali Beach. On windward Oahu, the surf smashed retaining walls and washed into several beachside homes between Kaaawa and Mokuleia.

On December 19 a sudden thunderstorm dropped 2 inches of rain on Honolulu in about 45 minutes during the morning rush hour, converted streets to rivers, and created a monumental traffic jam which delayed thousands of work- and school-bound motorists by as much as an hour or two.

Other noteworthy weather events during the period included the heavy showers on Kauai on November 13, on Oahu on the 14th, and on Maui and Hawaii on the 15th, leaving amounts which ranged up to over 4 inches at Wailua Uka, Kauai. On the night of the 14th, snow blanketed Hawaii's highest mountains down to the 10,000-foot level in places on Mauna Kea and to 12,000 feet on Mauna Loa.

For November as a whole the northern islands were wetter than the southern. Kauai and Oahu exceeded November means everywhere. Their western sections had 2 to 4 times normal (individual gages 6 to 8 times), as did parts of

SPECIAL WEATHER SUMMARY - CONTINUED

western and central Maui. By far the driest area was northeastern Hawaii Island, where Kohala to Pahoehoe had well under half, and in places under one-fourth, the November mean.

December was wet everywhere. Hardly a gage in the State had under the monthly mean, while many on eastern and southwestern Kauai, western and southern Oahu, on Molokai, Lanai, and on

western, central, and southern Maui, as well as in the Kona and Kau districts of Hawaii Island reported 3 to 6 times the normal.

As the following list shows, many gages, especially on Kauai, shattered their previous record totals for December, and in several instances for rainfall in any month.

Stations With More Rain in November or December 1968 than in
Any Previous November or December

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest November Total	November 1968
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KAUAI

Intake Wainiha PC	52	47.65 Inches	50.61 Inches +
Makaweli	76	11.90	12.31

Station	Length of Record (Yrs.)	Previous Greatest December Total	December 1968
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KAUAI

Anahola	38	14.60 Inches	32.58 Inches *
Halaula	66	22.25	31.50
Hanalei Tunnel	30	33.60	37.40
Kapaa Stables	28	14.76	28.25 *
Kealia	69	17.45	26.88 *
Lihue	64	21.72	24.18
Mana	47	12.79	14.40
Niu Ridge	29	17.21	17.23
N. Wailua Ditch	40	35.26	43.77
N. Wailua River	29	26.10	42.00
Waiahi Lower	39	22.53	26.98
Waiahi Upper	35	28.00	30.85
Waiimea	55	14.80	18.95 *

MOLOKAI

Kalaupapa	28	11.82 Inches	12.91 Inches
Kaunakakai	35	8.70	10.66

MAUI

Kihei	65	8.64	10.45
Launiupoko Intake	55	19.18	20.20
Pauwela	52	16.06	16.87
Ukumehame	39	11.74	11.98 *

HAWAII

Kioloakaa A&F	39	16.50	17.70
Napoopoo	28	6.81	7.08
Pakao	40	15.50	17.90

+ - Gage overflowed

* - Greatest in any month

Saul Price
Regional Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

Russell Dorr
Acting State Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811

HAWAII
DECEMBER 1968

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DAILY PRECIPITATION

HAWAII
DECEMBER 1968

Continued

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF MOLOKAI																																		
ALL-UPAPA 503	12.91	*	*	.70	.63	*	*	*	.89	*	*	.90	1.00	*	*	.69	.12	*	.52	1.70	.13	*	.91	.10	1.50	.40	.60	*	*	2.32	.71	*		
KAUNAKAKAI 536	10.60	*	*	*	2.16	*	*	*	.71	*	*	*	*	*	*	*	*	*	2.31	1.20	*	*	1.91	.50	2.20	1.54	*	*	.83	*	*	.48		
KEONELELE PENS 551	12.24	*	2.73	.37	1.15	1.40	*	*	*	1.06	.15	1.85	2.89	*	*	.43	1.43	.50	.49	1.80	*	*	1.06	.05	1.97	*	*	.26	*	*	*			
KUALAPU 534	15.01	.83	.30	.64	*	*	*	.22	.50	.05	.08	.80	.01	*	*	1.40	.20	*	1.20	.03	*	*	.30	1.48	1.00	*	.15	*	*	*	*			
MAPELEHU 542	8.36	*	*	.04	1.50	.12	*	*	1.18	.78	*	*	.32	*	*	.15	2.80	.96	.85	*	*	.55	.06	2.20	*	*	.84	*	*	*	*			
MAUNALO 511	9.93	.07	T	T	.65	.11	.01	*	1.53	T	*	*	.87	.01	*	.31	.80	.50	.12	1.75	.10	.10	.05	1.00	1.38	.12	.42	.01	*	*	*			
HOLUOHI 38 544	12.04	.02	.02	.92	*	*	*	.32	.26	*	*	.41	.02	*	*	1.96	.30	.03	2.00	.09	.01	.45	2.25	.46	2.00	.05	.47	*	5.16	*	*			
PUUOHOKU RANCH 542.1	47.02	* 19.91	*	*	*	*	*	*	8.60	*	*	*	*	*	*	7.03	*	*	*	*	*	6.92	*	*	*	*	*	*	*	*	*	*		
ISLAND OF LANAI																																		
KAHEKUA 690	7.54	*	*	*	.98	*	*	*	.54	*	*	.84	*	*	*	*	1.66	*	*	*	*	*	*	*	3.37	*	*	*	.69	*	*			
KAUNALAPU HARBOR 658	5.07	*	.92	.24	.18	*	*	*	.54	*	*	.36	*	*	*	.23	.31	*	*	*	*	.24	*	*	2.01	*	*	.40	*	*	*			
LANAI CITY 672	8.67	.26	.06	.04	.46	.79	.06	T	.34	.36	.04	T	.01	*	*	1.10	.73	.02	.28	.22	.40	.15	.06	.40	2.47	T	.11	.31	T	.39	*			
LANAI-HALE 684	8.99	*	*	*	3.07	*	*	*	1.14	*	*	*	*	*	*	*	2.15	*	*	*	*	*	*	*	*	2.24	*	*	9.46	*	*	*		
HANALEI 694	9.46	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
MALEKA 670	8.55	*	*	*	.74	*	*	*	2.07	*	*	1.37	*	*	*	1.08	1.79	*	*	*	*	*	*	3.55	*	*	*	1.10	*	*	.01	*		
WAIKAEKUA 685	14.02	*	.56	*	1.22	.98	*	*	2.07	*	*	*	*	*	*	1.08	1.79	*	2.85	*	*	*	1.16	*	2.89	*	*	1.60	*	*	*	*		
ISLAND OF MAUI																																		
ALAHU-252	15.05	*	.30	.12	.54	2.00	1.95	*	1.45	.08	.87	.10	3.21	.55	.06	.80	.90	.69	*	4.60	.20	.34	.20	.45	2.81	2.58	*	*	.71	.04	*	*		
MALEKAKA B E S 434	13.32	.08	*	.48	.59	1.29	.07	*	.18	.05	.24	1.76	*	*	*	.99	.77	*	.41	*	*	*	.373	*	*	.80	*	*	*	*	*	*		
MALEKAKA RANCH 432	11.29	*	.04	.09	1.10	.91	.03	*	.45	T	1.26	.24	.06	.08	.85	.93	.08	.85	.93	.02	.12	*	.03	.23	1.95	T	*	.46	.06	*	*	*		
MALEKAKA SUMMIT 338.4	9.14	.40	.02	.10	.76	.06	*	*	.58	*	.22	.03	.05	.05	1.60	1.50	.17	.44	.20	*	*	.10	*	.23	1.95	*	.10	.02	*	*	*	*		
MAHIMAHIMA 423	10.99	*	.15	.01	.38	1.93	.02	*	.12	.04	2.26	.26	.02	.43	.70	.01	.02	.46	*	.84	*	*	*	2.60	*	*	.76	*	*	*	*	*		
MAHAKAPU 485	8.97	.09	T	T	.30	1.12	.02	*	.10	T	2.50	.52	.02	.50	.57	.01	.03	.44	.38	.25	.01	T	1.62	T	.46	.03	*	*	*	*	*	*		
HANA 354	1.97	*	.10	.21	.15	.14	.01	.01	.02	.26	.07	*	.33	.27	.31	*	.39	*	.08	.14	.42	*	.03	.09	*	.03	.09	*	*	*	*	*		
HANA AIRPORT 355	8.41	.09	.08	.89	.72	.82	.02	T	.04	.06	.71	.07	T	.75	.04	.14	.08	.23	.41	T	T	.23	.13	1.02	.81	.08	1.33	.02	.40	.12	T	.13	*	
HANAHULI 281	10.51	.03	.18	.31	.71	*	*	*	.06	.71	.07	T	1.10	.75	.36	.87	.44	1.00	.04	.28	.60	.33	.24	.71	1.15	*	*	*	*	*	*	*		
HOLUA CABIN 459.5	42.70	*	*	*	16.30	*	*	*	*	*	23.50	*	*	*	*	*	2.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
HONOKAMU 480	28.00	*	*	*	.76	.49	.02	*	.34	.02	*	1.13	*	.28	.36	.80	.02	.50	.74	.94	.02	*	2.18	*	*	.51	*	14.20	*	*	*	*		
HONOKAMU 493	8.94	*	.03	.76	.49	.02	*	.34	.02	*	1.13	*	.28	.36	.80	.02	.50	.74	.94	.02	*	2.18	*	*	.51	*	14.20	*	*	*	*	*		
HONOKAMU GULCH 341	14.20	.08	T	T	.82	.27	*	.19	.04	*	.70	T	.33	.61	.02	1.15	.71	.07	T	1.09	1.88	*	*	*	*	.28	T	*	*	*	*	*		
KAHANAI 374	16.48	*	*	*	4.00	*	*	*	1.28	*	.90	.77	.04	.25	.59	.07	.16	.01	1.97	*	*	*	*	*	*	.40	.09	*	2.87	*	*	*	*	
KAHULUI MB AP 398	7.07	T	.21	.52	.03	*	*	.12	.32	*	.32	*	.90	.77	.04	.25	.59	.07	.16	.01	1.97	*	*	*	.40	.09	*	2.87	*	*	*	*		
KAHULUI 436	17.06	.13	*	.50	.19	.62	.02	.27	.02	*	.32	.04	.13	.16	.15	.41	.01	.02	2.12	3.04	.46	.26	1.41	.01	.31	*	.31	*	3.16	*	*	*		
KAUAIKA INTAKE 375	14.02	*	*	*	3.14	*	*	*	1.92	*	.90	.77	.04	.25	.59	.07	.16	.01	1.97	*	*	*	*	*	*	.40	.09	*	2.87	*	*	*	*	
KEAMUA 410	9.69	.05	.01	T	.39	1.77	.01	*	.10	.01	.06	1.00	.03	.53	.89	.01	.08	.82	.66	.03	.01	2.60	.03	.01	2.60	.03	.01	.54	.05	*	*	*		
KEAMUA 346	31.55	.14	.01	.01	.38	.08	*	.95	.01	.01	.13	.21	.20	.11	.72	1.48	.24	.05	.50	.10	.77	.36	1.07	.76	.07	.17	.54	*	*	*	*	*		
KEAMUA BEACH 400.2	7.96	.14	.01	.01	.38	.08	*	.95	.01	.01	.13	.21	.20	.11	.72	1.48	.24	.05	.50	.10	.77	.36	1.07	.76	.07	.17	.54	*	*	*	*	*		
KIHEI 311	10.45	.10	.03	.48	.99	.28	.09	.06	.03	.62	.21	.20	.11	.72	1.48	.24	.05	.50	.10	.77	.36	1.07	.76	.07	.17	.54	*	*	*	*	*	*		
KIPAHULU 258	8.22	.13	.21	.26	.07	*	*	.20	.04	.06	.03	.62	.21	.20	.11	.72	1.48	.24	.05	.50	.10	.77	.36	1.07	.76	.07	.17	.54	*	*	*	*	*	
KULA HEIGHTS 323.2	8.89	.12	.28	.58	.64	.04	.02	.12	.12	.10	.02	.27	.02	.08	.54	1.12	.15	.28	1.52	.01	.03	.10	.56	2.49	.83	.15	*	*	*	*	*	*		
KULA SANATORIUM 267	11.08	.15	.01	.48	.31	.04	.02	.12	.12	.10	.02	.27	.02	.08	.54	1.12	.15	.28	1.52	.01	.03	.10	.56	2.49	.83	.15	*	*	*	*	*	*		
LAHAINA 381	16.56	.04	.67	*	*	*	*	.45	.12	*	.02	*	.91	.38	.14	*	14.00	*	*	*	*	*	*	1.82	*	*	.62	.00	1.00	*	*	*	*	
LAHAINA INTAKE 376	20.20	.14	.08	.30	*	*	*	.56	.12	*	.02	*	1.48	1.42	2.00	.47	2.60	*	*	*	*	*	*	2.60	*	*	1.00	*	*	*	*	*		
LAHAINA VILLAGE 372	10.77	.14	.08	.30	*	*	*	.56	.12	*	.02	*	1.48	1.42	2.00	.47	2.60	*	*	*	*	*	*	2.60	*	*	1.00	*	*	*	*	*		
LUPU UPPER 442	22.20	.10	.90	1.14	*	*	*	.30	.37	.01	.09	1.69	*	.67	.41	1.15	T	.01	.24	.03	2.89	.02	1.10	2.00	.65	*	22.20	*	*	*	*	*		
MAHIMAHIMA 405	12.38	.63	1.69	1.56	.02	.33	.37	.01	.09	1.69	*	.67	.41	1.15	T	.01	.24	.03	2.89	.02	1.10	2.00	.65	*	22.20	*	*	*	*	*	*	*		
MALELE -FLO 60-497	9.51	.17	.33	1.30	.04	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35
OLIHUA 332	10.97	.17	.33	1.30	.04	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35
OLIHUA 296	10.97	.17	.33	1.30	.04	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35
OLIHUA GULCH 377	12.00	.17	.33	1.30	.04	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35
PAIA 350	20.39	.17	.33	1.30	.04	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35	*	.58	.35
PAIA 404	8.04	.04	T	.36	3.77	.86	.09	.12	.77	.03	*	7.07	3.14	.86	2.20	.32	.63	.03	.06	.44	.62	.16	T	1.25	.01	.10	.15	*	.01	.73	.07	*	*	
PANILEI-HULU 259.2	22.45	.04	*	.36	3.77	.86	.09	.12	.77	.03	*	7.07	3.14	.86	2.20	.32																		

DAILY PRECIPITATION

Continued

HAWAII
DECEMBER 1968

		DECEMBER 1968																																
Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KAUMANA 88.1	A	27.51	4.44	2.53	1.74	.68	2.25	.37	.29	.04	.04			3.04	6.23	1.21	1.10	.04	1.83	.50	.04		.50	.32		.12		.05	.15					
KAWAINUI LOWER 193	A	31.37												2.15						5.82							1.12							
KEAUA 92	A	32.59	4.80	3.01	.51	.72	2.54	.45	.16	.04	.01		.07	2.17	7.35	1.55	4.00	.07	1.93	.42	.01	.10	1.77	.21	.03	.22	.30		.13					
KEALAKEUA 26.2	A	7.95	.02		2.27	.01	T					.17	.01	.07			.09	1.36	2.30	.29		.41				.70			.25					
KEHENA 181.2	A	16.19																														16.19		
KIDLAKAA A & F 6	A	17.70																															17.70	
KIPA 89.2	A	27.17	3.53	2.00	1.92	1.28	2.20	.32	.80	.13	.02	.01		3.00	5.09	1.43	1.74	.33	1.58	.35			.30	.69		.13		.13	.19					
KOHALA 179.1	A	9.22		1.10	.01	1.26	.41	.20			.03		.01	1.23			1.06	.35	.90	.05			.43			1.90				.28				
KOHALA MAULILI 176	A	15.38		1.50	.02	.99	1.18	.28						4.59			2.99	.53	1.06	.04			.73			1.22				.23				
KOHALA MISSION 175.1	A	9.46	.02	T		1.12	.62	.25	.04			T		2.24	1.40	.10	T	.52	.97	.04		.38	.22	.03	T	1.25	.02		.24	T				
KOIAKE LOWER 196	A	17.26												7.00								3.10						.76						
KONA AIRPORT 98.3	A	5.91	.03		1.10		.50	.05				.08		1.30			T	.60	1.30	.10	T	.07	T			.50			.28					
KONA VILLAGE 93.8	A	6.16		.87	.53										.32		1.55	1.75	.05	.15	.10	.07			.12				.65					
KUKAIUA 222	A	21.97	.13			1.28	3.12	.64	.03					6.73	6.50		.20	.11	.84	.11			.65	.23	.15	T	.40	.08	T	.21	.72	T		
KUKUIHAELE MIC 199	A	15.33				2.52	3.62	.92	.29					2.15	3.00	.10		.37	.73	.04		.47	.14				.40	.04	.06	.23	.25			
KUKUIHAELE HILL 206	A	14.93				3.22	2.55	1.00			.10			2.75			3.33	.21	.46	.01			.61			.46	.02			.21				
KULANI CAMP 79	A	15.11	1.44	.71	.40	1.65	.07	.07	.08	.32		T		1.01	2.61	.44	.88	.32	3.10	.30	.40	.47			.08				.23					
KULANI MAUKA 76	A	9.40	.01	.06	1.22	.15							.20	1.84	.35	.38	.56	3.80	.25						.35	1.13			.22					
KULANI SCMDL SITE 78	A	9.50	.42						2.30			.08			3.70							2.00				.30	.04			1.00				
LANIHAU 68.2	A	8.78	.06		1.67	.05	.34					1.00	.08			.56		2.76	.96	.16					.52		.28							
MAUKA 2	A	15.69		.02				4.50			.42						1.38				.54	.03		2.54							1.32			
MAUKA KEA BEACH 98	A	4.11	T	.01	.76	.40	.03				.25						.58	1.12		.05		.03				.43			.45					
MAUKA LODA SLOPE OBS 39	A	7.12	.07	.26	.35						.01			.07		.44	.38	3.71	1.03	.01						.44			.35					
MIDDLE HUALAIDA 68.1	A	4.78				.12													3.51							.60				.15				
MIDDLE PEN 147.1	A	5.94			1.68		.43													2.35							.97					.51		
MOAULA 18	A	9.40																															9.40	
MOUNTAIN VIEW 91	A	28.49	3.80	2.40	.92	1.17	1.72	.37	.39	.11	.02		.02	1.94	5.78	1.25	3.11	.02	2.02	.23		.08	1.35	.16	.01		1.23	.01		.35	.01			
NAALEHU 14	A	15.27	2.84	1.51	.58	.17	T		.29	.24		.12	.37	.02	T		1.00	1.66	1.79	.44	.09	2.55		.61	T		.90	T		.04				
NAPPOPO 28	A	7.08			.03						1.96						.33															.87		
NAULU FOREST 38.6	A	28.89			7.95	.50			.20	.23	.88	.06			.90				10.72				3.80	.89	.18					2.45		.03		
NIULILI 179	A	11.05		1.37		1.79	.56	.28			.06			1.30			1.95	.91	.86	.06			.31				1.31			.29				
ODKALA 223	A	21.40	.07			1.40	1.60	.92	.10			.06		7.00	6.40	.28	.24	.28	.69	.03			.97	.51	.03		.17	.15	.01	.22	.33			
OPIHIHALE 2 24.1	A	10.25		.53	.53	.33	.55	T		.25	T	.09	T		.13	.27	.70	2.81	.25	.01	1.34	.01				1.23	T	T	1.20	T				
ORCHID LAGO EST 91.5	A	42.15						.17						4.46								16.86												
PAAHUAU 217	A	16.90	.02			1.22	1.68	1.35	.06					4.28	3.90	.02		.26	.66	.03			.31	2.22	.03		.34	.04		.27	.01			
PAAHUAU 221	A	21.91	.11			1.10	3.33	.63	.01					6.70	6.40	.09	.07	.14	.67	.20			.55	.56	.11	T	.23	.08	T	.21	.72	T		
PAHALA 21	A	13.59	2.05	1.71	1.31	.30			.03	.94		.20	.13	.01	.01	.03	1.34	.45	2.64	.40			.53				.71			.01	.03			
PANDA 65	A	45.48	.02	3.15	1.20	2.53	.93	1.36	.71	.20	.04		.08	2.10	1.42	2.19	3.67	.64	3.46	.03	.35	.06	.93	.10	.15	1.18	1.02	.03		.03				
PAKAD 37	A	17.90												2.85	7.74	1.74	1.67	.04	1.84	.19	T	.04	.33	1.71					.35			17.90		
PAPAIAKU 144.1	A	27.45	2.65	1.58	.61	.96	2.32	.43	.24	.01	T																							
PAPAIAKU MAUKA 140.1	A	29.18	3.02	1.69	1.24	1.82	1.48	.46	.71	.11	.22			4.03	7.63	1.65	1.17	1.14	1.84	.20			.43	.74			.14		.04	.42				
PEPEEKED MAKA 144	A	24.45	2.05	1.03	.29	1.54	.17	1.20	.05	.01	.02		.02	4.00	6.24	1.10	1.56	.42	1.53	.16			.94	1.45	.01		.13	.02		.39	.10			
PIIMONUA 89	A	31.00															.26		2.05											.54			31.00	
POHAKULDA 107	A	4.26		.25							.43							.26		2.05											.73			
PUAKO 95.1	A	3.51	.03	.03	.11	.37	.01					.14	.02					.14	1.66	.06		.02				.38			.54					
PUU KINE 120	A	9.27																															9.27	
PUU LAU 102.1	A	4.30																															4.30	
PUU LEHUA 73	A	5.60																															5.60	
PUU MALI 113	A	6.35																															6.35	
PUUOKUMAH 167	A	17.11		.87	.86	.37	1.89	.17			.01	.36	.01	4.64			3.42	.71	1.47	.20				.91			1.02				.20			
PUU OD 82	A	8.26	.73	.04	.23	1.66	.16	.12	.09	.06		.08		.55	1.50	.46	.23	1.50	.12				.01				.16			.56				
PUU WAAWAA 94.1	A	8.19	.20		2.73	.40	.08	.03				.52	.13	.15			T	.51	1.35	.33							.36			1.40				
SAULOE ROAD 1 84	A	21.31												4.10								8.04												
SOUTH POINT CORRAL 3	A	4.97	.11	1.81						.32			.12					.58				.77								1.26				
UMIKDA 118	A	15.20			.02	1.75	3.60	.28	.02			.01	.01	3.20	3.55	.10	.13	.18	1.05	.18		.14	.16	.11			.11	.12		.31	.17			
UPULU POINT USCG 159.2	A	6.03	.02		.04	.65	.25		.25	.02			.14	.04			.89	.59	.74	.76	.01		.27			.01	1.52	.01		.09				
WAILAKEA 500 88.2	A	28.19	4.63	2.84	1.2																													

PRECIPITATION MEASURED IN STORAGE GAGES

Station	Obser — vation date	Amount since last obs.	Snow on ground	Station	Obser — vation date	Amount since last obs.	Snow on ground	Station	Obser — vation date	Amount since last obs.	Snow on ground
ISLAND OF KAUAI				ISLAND OF MAUI				ISLAND OF MAUI (CONT INJEO)			
HANALEI TUNNEL 1053	1968			HAELAAU 477	1968			MOKUPEA 475	1968		
	JAN 31	16.00			FEB 3	8.20			JAN 31	7.62	
	FEB 29	6.00			MAR 2	9.00			FEB 28	9.15	
	MAR 31	19.20			MAR 30	35.40			APR 1	28.41	
	APR 30	15.40			APR 29	20.00			APR 30	19.69	
	MAY 31	2.40			JUNE 2	6.60			MAY 31	3.62	
	JUNE 30	9.20			JUNE 30	3.60			JUNE 30	2.25	
	JULY 31	13.00			AUG 4	6.20			AUG 4	3.57	
	AUG 31	9.40			SEPT 1	9.20			AUG 31	2.65	
	SEPT 30	8.00			SEPT 29	2.40			SEPT 29	3.04	
	OCT 31	17.00			NOV 3	2.00			NOV 2	4.35	
	NOV 30	8.00			OEC 1	12.60			OEC 1	7.58	
	OEC 31	37.40			OEC 29	18.80			OEC 31	20.95	
TOTAL . . . . .	. . .	161.00		TOTAL . . . . .	. . .	134.00		TOTAL . . . . .	. . .	111.98	
N WAILUA RIVER 1055				HONOLUA FLO 49 494				PUU PAKI 352			
	1968				1968				1968		
	JAN 31	12.40			JAN 31	7.16			APR 1	100.20	
	FEB 29	5.00			FEB 28	6.77			JULY 1	64.00	
	MAR 31	13.20			APR 1	11.19			SEPT 30	32.00	
	APR 30	9.40			APR 30	6.77			OEC 30	51.00	
	MAY 31	1.80			MAY 31	2.32			TOTAL . . . . .	. . .	247.20
	JUNE 30	4.80			JUNE 30	1.26			WAILUA IKI 348		
	JULY 31	9.00			AUG 4	1.44			1968		
	AUG 31	6.00			AUG 30	1.71			APR 1	80.00	
	SEPT 30	8.40			SEPT 30	2.00			JULY 1	70.00	
	OCT 31	13.00			NOV 2	1.88			SEPT 30	50.00	
	NOV 30	7.00			OEC 2	2.85			OEC 30	68.00	
	OEC 31	42.00			OEC 30	9.14			TOTAL . . . . .	. . .	268.00
TOTAL . . . . .	. . .	132.00		TOTAL . . . . .	. . .	54.49					
				KUKUI 380	1968						
					FEB 3	31.00					
					MAR 2	31.00					
					MAR 30	74.00					
					APR 29	46.00					
					JUNE 2	34.00					
					JUNE 30	20.00					
					AUG 4	21.00					
					SEPT 1	25.00					
					SEPT 29	11.00					
					NOV 3	8.00					
					OEC 1	35.00					
					OEC 29	46.00					
				TOTAL . . . . .	. . .	382.00					

DAILY TEMPERATURES

HAWAII
DECEMBER 1968

Station		Day of Month																															Average		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF KAUAI																																			
KANALOHULU 1075	MAX MIN	62 58	71 55	66 55	65 53	64 44	65 41	69 41	70 57	65 52	73 49	70 49	72 58	67 56	59 54	65 57	62 58	66 51	60 50	65 52	66 45	65 45	65 47	67 48	64 57		63 46	62 41	63 41	64 49	63 40	45	65.4 49.8		
KILAUEA POINT 1133	MAX MIN	87 70	82 70	78 68	76 69	78 68	79 74	80 73	76 67	81 71	84 71	84 69	75 64	75 64	77 70	77 69	81 65	75 67	76 69	86 69	86 69	74 70	79 71	82 72	82 66		75 67	76 67	79 66	81 69	81 70	82 68	84 74	79.6 68.9	
LIHUE WB AP 1020.1	MAX MIN	78 68	76 66	78 69	75 68	75 63	82 62	79 68	74 66	80 69	80 65	79 65	75 67	76 67	75 67	75 67	78 65	73 63	73 66	78 64	78 62	75 65	77 65	80 70	78 67		75 63	74 61	75 62	75 61	73 59	74 62	77 65	76.5 65.0	
MAKAHUEA POINT 940.1	MAX MIN		88 72	82 72	83 69	85 66	80 68	80 65	82 72	77 66	84 69	84 72	81 70	83 69	83 68	82 72	79 69	82 71	75 71	73 69	85 65	84 70	80 68	80 67	82 68		85 67	82 68	83 61	77 69	82 62	80 61	82 68	81.5 68.2	
MAKA 1026	MAX MIN	84 71	85 69	81 67	80 65	81 62	79 60	80 69	84 66	76 63	83 69	84 65	86 65	84 64	84 63	83 63	82 61	83 61	78 65	77 64	79 60	82 65	76 64	81 63	82 63		77 64	76 62					81.0 64.2		
NIU RIDGE 1035	MAX MIN	79 62	80 63	80 63	80 60	79 59	79 59	78 57	78 58	79 58	78 59	79 59	80 62	80 63	81 64	79 60	78 63	77 59	76 60	75 59	79 60	79 60	77 60	79 59		78 59	77 59	78 59	77 58	76 58	76 57		78.2 59.9		
WAIHI LOWER 1054	MAX MIN	80 63	81 62	79 64	78 60	77 58	78 54	80 60	80 61	80 58	85 59	83 60	84 60	73 57	77 60	78 60	77 62	72 59	70 62	77 60	80 57	80 58	78 50	78 62		78 60	77 53	76 54	77 50	76 52	73 53	78 53	78.0 58.1		
ISLAND OF OAHU																																			
EWA PLANTATION 741	MAX MIN	77 68	78 68	81 70	78 68	81 62	82 61	85 64	85 64	87 63	86 65	86 64	82 67	78 68	80 68	77 67	79 66	74 67	80 65	82 66	83 67	84 63	82 63	83 62		83 71	77 68	77 58	80 59	77 66	76 60	78 58	80 60	80.6 64.7	
HONOLULU WBFC 703	MAX MIN	79 70	82 70	80 69	78 68	80 64	83 62	84 66	81 66	81 65	83 67	82 67	80 69	80 68	77 69	77 68	76 67	74 68	80 65	79 66	81 67	79 64	82 65		81 70	78 64	78 59	79 62	77 64	77 60	79 59	78 66	79.7 65.7		
HONOLULU SUBSTA 704	MAX MIN	79 72	80 70	80 70	75 68		79	80 71	81 68	83 69	81 71	83 71	78 69	76 67	79 71	78 71	76 69	75 69	79 67	80 66	81 70	78 69	81 69		80 67	80 64	75 68	75 64	79 70	77 68	74 65	76 67	77 68	78.5 68.8	
KAHUKU 912	MAX MIN		80 67	80 69	79 71	75 67	78 63				83 64	81 65	83 65	84 66	79 70		79 65	79 67	73 65	82 65	81 66					81 65	81 63		83 66	83 64		79 64	78 65	79.7 65.7	
KANEHE MAUKA 781	MAX MIN	78 70	80 71	78 70	73 68	79 68	76 64	80 70	85 66	82 67	83 70	82 70	80 69	74 70	76 71	76 71	75 65	73 65	85 68	79 67	80 65	77 68	78 69		82 70	80 70		75 66	76 65	78 60	76 67	74 63	77 68	78.3 67.7	
LUALUALEI 804	MAX MIN		88 60	79 69	81 69	78 67	80 61				84 66	84 67	84 66	80 66			80 67	79 68	76 66	80 68	81 68					81 64	82 68		82 60	79 60		80 62	78 63		
MAKAPUU POINT 724	MAX MIN		76 68	77 68	74 69	75 67	76 70	73 70	78 71	79 72	84 73	82 71	79 72	75 67	75 71	81 64	75 69	74 67	72 69	77 64	79 69	78 65	74 66		78 64	78 73		77 64	70 66	78 61	74 66	77 66	78 63	76.6 67.7	
OPAELA 870	MAX MIN	85 64	73 65	75 66	75 64	72 59	75 59				86 60	77 61	83 62	83 65	83 64	73 62																			
PRI WAIHANA 820.2	MAX MIN		85 63	75 68	78 65	75 62	78 58	82 58	84 58	82 58	87 61	84 61	84 61	79 66	74 66	79 65	74 64	75 63	71 63	77 63	79 64	80 63	75 62		82 59	80 60		78 65	71 57	76 57	75 61	70 57	79 55	77.9 61.4	
WAIALUA 847	MAX MIN	78 68	79 69	77 67	81 68	81 64	81 57	84 61	82 64	85 60	83 65	83 62	85 64	81 67	78 68	76 68	82 62	80 62	81 66	78 65	81 65	80 64	84 62		83 61	87 65		75 64	83 63	78 58	79 60	82 58	80.7 63.6		
WAIKAI 717.2	MAX MIN	78 69	82 68	80 68	81 69	79 63	82 64	84 66	85 67	85 65	81 67	82 68	82 69	83 68	78 70	88 68	80 69	78 68	74 65	83 67	82 68	84 63	84 66		83 69	85 73		85 62	79 59	79 62	81 69	80 58	78 65	81.2 66.5	
ISLAND OF MOLOKAI																																			
MOLOKAI AP 524	MAX MIN	76 71	79 68	80 68	79 68	70 64	79 64	80 64	83 70	83 68	82 68	81 65	83 68	79 65	73 67	78 66	79 66	75 67	71 67	77 68	74 68	80 66	80 68		77 63	80 68		80 70	70 60	76 63	78 65	74 64	74 63	76 59	77.6 66.1
ISLAND OF LANAI																																			
LANAI CITY 672	MAX MIN	72 63	74 65	74 60	69 61	70 58	75 63	73 64	75 61	79 65	80 63	82 67	78 64	76 62	68 60	74 60	75 65	67 61	68 60	71 62	73 63	74 63	72 63		71 62	71 61		68 58	70 60	74 63	69 60	71 57	72 61	71 60	72.8 61.8
ISLAND OF MAUI																																			
HALEAKALA RS 338	MAX MIN	58 48	60 47	61 44	60 43	55 38	58 41	61 43	62 46	66 46	65 46	65 43	64 43	65 45	53 43	58 43	57 44	58 45	54 46	59 47	60 48	62 42	63 40		59 42	59 40		67 45	54 32	58 35	59 39	57 38	61 41	70 41	60.3 42.7
HALEAKALA SUMMIT 338.4	MAX MIN	57 40	58 37	53 40	49 39	56 38	58 38	57 38	55 39	55 39	55 42	53 44	62 42	55 48	48 37	58 38	56 38	50 35	44 32	44 33	45 29	48 36	61 36		61 39	49 38								54.0 37.9	
HANA AIRPORT 355	MAX MIN	82 73	83 74	83 74	84 65	73 65	75 65	81 70	83 69	84 69	84 69	83 67	87 63	76 70	78 68	81 65	79 68	76 66	81 66	81 65	80 65	80 65		79 68	81 70		82 70	74 66	76 61	77 60	75 60	77 62	77 62	79.7 67.2	
KAAHAU PALI AIRPORT	MAX MIN	79 69	82 69	82 69	83 62	73 67	77 68	83 65	84 66	84 71	84 68	83 67	86 71	82 67	75 68	80 65	80 67	81 68	76 66	82 72	81 67	81 67	79 69		82 66	82 68		81 70	75 66	79 61	81 64	77 62	77 61	80.4 66.8	
KAHULUI WB AP 398	MAX MIN	85 68	85 67	84 67	73 67	77 66	82 66	87 59	84 60	85 60	86 60	85 64	84 63	75 66	81 62	82 62	75 66	79 65	83 66	82 68	81 63	79 69		81 66	81 65		76 63	78 64	80 56	77 62	77 61	76 57	80 57	80.7 64.3	
KAILUA 446	MAX MIN	74 65	79 65	83 65	81 66	81 65	83 63	75 63	78 60		80 63	80 64	81 63	69 62	73 63	75 62	77 63	75 62	82 62	81 62	81 62	75 62		82 62	81 63		78 63	70 61	77 59	75 59	78 60	72 57	77.4 62.5		
KEAWAKAPU BEACH 260.2	MAX MIN	81 66	83																																

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

HAWAII
DECEMBER 1968

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
WAILUKU 392	MAX MIN	82 69	83 67	83 66	84 67	71 65	73 65	83 68	85 61	86 69	86 67	85 68	85 67	78 65	78 67	82 67	80 67	82 68	76 63	78 67	81 67	82 65	82 67	80 67	80 63	81 63	73 61	80 63	80 63	78 61	78 63	82 61	80.5 65.4
* * *																																	
ISLAND OF HAWAII																																	
HA'INA 214	MAX MIN	81 66	81 66	87 67	83 62	79 64	75 64	75 65	79 64	83 62	82 64	82 63	82 60	83 63	69 63	80 62	79 63	82 63	75 62	79 65	82 67	82 64	80 63	76 66	78 62	82 63	77 62	75 61	80 61	78 61	78 59	80 61	79.5 63.2
HAWAII VOLCNS NP HQ 54	MAX MIN	64 56	64 59	68 58	68 55	67 55	67 56	64 54	68 59	72 56	70 51	72 51	71 51	69 51	61 51	59 55	61 56	62 55	61 54	65 55	64 55	62 55	71 52	69 53	69 48	67 55	63 48	66 48	68 50	67 46	64 46	66 46	66.1 53.2
HILO WB AIRPORT 87	MAX MIN	78 69	84 70	82 69	80 67	80 69	78 69	81 69	84 68	87 67	84 65	84 66	82 60	71 67	72 67	75 67	87 67	76 66	80 69	83 67	83 64	81 68	81 68	83 65	86 65	83 64	78 63	80 65	85 64	77 66	79 62	83 65	80.9 66.5
KAINALIU 73.2	MAX MIN	79 65	80 66	81 65	77 65	78 62	80 63	80 62	80 64	81 62	81 63	79 63	78 62	78 63	80 62	79 66	80 66	73 63	70 62	79 66	80 65	78 60	78 62	78 61	74 58	73 50	78 60	78 62	80 60	76 59	75 59	78.1 62.2	
KAMUELA 192.2	MAX MIN	79 59	76 58	78 60	75 58	72 57	72 58	70 58	78 48	80 52	80 54	78 49	79 52	68 56	64 50	75 58	75 55	68 55	70 58	75 57	76 55	78 56	78 55	76 56	76 52	69 52	75 47	75 50	66 51	66 46	73.9 54.2		
KAMUELA AIRPORT 191	MAX MIN	76 52	76 57	76 57	74 52	72 52	72 52	71 51	75 49	79 48	79 46	76 49	76 47	74 51	70 48	68 48	76 54	76 46	68 52	71 49	75 51	76 49	77 52	76 52	75 45	74 52	72 51	66 48	76 47	74 54	70 41	69 43	73.7 49.8
KEAAU 92	MAX MIN	87 65	87 65	81 67	82 66	81 68	82 67	85 65	85 65	85 65	87 65	85 65	84 61	85 61	74 65	74 65	85 65	86 65	82 67	82 64	88 66	88 66	88 63	88 63	84 62	84 61	87 61	83 61	83 61	83 61	83 60	83.0 64.2	
KEALAKEKUA 26.2	MAX MIN	78 66	81 67	82 66	76 65	79 64	81 64	79 64	81 67	80 67	81 65	80 66	81 64	80 63	80 63	82 63	79 66	75 64	72 63	80 66	80 64	77 62	79 63	79 63	81 61	78 65	75 62	78 63	80 61	77 60	77 60	78.9 63.7	
KOHALA MISSION 175.1	MAX MIN	82 69	79 69	83 68	79 65	79 67	75 66	78 67	79 65	82 65	85 65	79 67	82 64	79 66	74 65	78 65	81 65	72 65	77 65	84 65	81 65	78 65	79 66	79 65	81 65	79 66	81 64	79 62	76 61	75 62	78.5 65.3		
KONA AIRPORT 68.3	MAX MIN	85 69	82 68	84 69	81 69	81 69	84 68	82 67	85 67	86 67	83 70	81 70	83 68	75 65	83 67	85 67	84 66	82 66	82 67	82 67	85 67	85 66	83 69	84 69	78 69	83 68	81 68	82 67	82 66	82 65	82 65	82.5 67.7	
KULANI CAMP 79	MAX MIN	66 45	65 46	67 48	66 46	68 48	65 46	67 48	72 47	68 47	68 47	57 45	58 45	57 45	62 48	58 46	59 48	58 48	57 48	68 45	64 45	65 48	69 47	67 43	65 41	65 41	65 41	65 41	65 41	65 41	63.8 45.6		
MAUNA KEA BEACH 98	MAX MIN	84 73	84 73	86 72	84 69	86 69	88 69	84 69	86 73	85 73	86 69	85 70	85 68	87 74	88 73	80 70	85 70	78 68	82 68	85 69	86 68	84 68	84 68	87 70	85 65	77 67	85 67	84 67	88 66	81 62	81 64	84.3 68.9	
MAUNA LOA SLOPE OBS 39	MAX MIN	48 39	48 38	48 38	48 38	52 35	52 32	49 34	52 32	52 34	56 36	57 37	54 32	45 35	48 33	45 33	45 39	43 35	45 39	42 36	53 33	51 33	50 35	56 36	58 36	46 32	48 30	50 31	50 34	52 35	56 34	49.9 34.3	
MOUNTAIN VIEW 91	MAX MIN	70 63	70 62	75 65	76 61	76 61	76 64	71 62	73 65	78 63	81 68	82 58	78 55	78 54	68 62	68 61	77 63	77 61	74 61	77 64	79 61	80 60	79 62	76 61	78 59	78 56	70 56	75 57	78 59	73 53	77 56	75.4 60.2	
NA'ALEHU 14	MAX MIN	83 67	83 67	81 67	82 67	80 67	81 69	81 69	81 67	81 67	82 69	82 68	79 66	81 67	81 67	79 66	78 66	78 63	78 64	78 66	78 65	81 65	81 65	80 67	80 67	80 67	80 67	80 67	80 67	80 67	80 67	80.3 65.9	
OOKALA 223	MAX MIN	81 68	88 70	85 70	86 66	86 66	72 64	77 67	80 65	83 69	83 66	82 66	82 65	69 65	76 65	77 66	80 66	74 66	78 67	79 67	81 61	75 61	72 61	73 59	82 59	72 59	72 60	69 59	71 59	78 61	81 62	77.1 64.1	
OPIHIHALE 2 24.1	MAX MIN	77 63	81 63	79 64	77 60	76 60	59 59	79 59	78 61	77 63	77 61	75 61	75 60	77 60	76 61	76 61	79 61	67 62	75 62	82 63	80 61	76 62	78 59	76 57	76 57	75 56	77 56	77 57	75 57	72 56	70 56	76.5 59.8	
PAHALA 21	MAX MIN	75 65	77 67	80 66	80 64	80 63	81 63	80 64	83 66	81 66	81 65	81 65	77 60	80 61	78 59	73 63	80 66	78 64	76 62	78 65	78 63	76 62	80 66	80 63	80 61	80 60	76 60	79 61	81 62	79 60	77 60	78.7 62.9	
UPOLU POINT USCG 159.2	MAX MIN	83 72	85 73	86 72	85 72	80 68	79 67	80 70	82 70	85 70	88 70	86 70	87 60	87 67	74 66	77 68	84 71	82 69	75 68	80 65	85 69	85 69	81 70	85 70	84 70	76 69	78 68	79 68	83 67	76 63	77 66	81.9 69.0	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP	-	-	-	-	.30	.26	.16	.04	-	.15	.15	.31	.32	.30	.20	.07	.00	.08	.07	.13	.06	.19	.23	.13	-	.30	.15	.21	.15	.32	-	5.538
	WIND	239	68	43	162	111	82	65	78	57	55	51	20	276	286	207	45	44	76	51	47	66	52	93	132	114	68	54	63	34	86	-	88
	MAX	80	82	83	83	80	81	82	85	72	87	89	85	80	86	76	76	79	72	74	85	84	81	85	85	78	82	80	84	78	78	-	81.1
	MIN	68	69	66	66	62	62	61	69	63	63	66	65	65	65	67	66	64	64	65	64	62	65	66	69	66	61	60	62	61	60	-	64.4
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.04	.09	.06	.14	.17	.14	.14	.08	.12	.09	.11	.11	.18	.22	.20	.01	.02	.14	.20	.12	.10	.10	.16	.09	-	.13	.13	.05	.11	.25	.03	3.658
	WIND	42	8	17	35	43	14	15	11	19	11	10	12	50	67	40	7	10	26	20	12	20	16	20	41	29	19	9	12	38	4	711	
	MAX	78	79	85	82	83	84	88	85	89	89	90	86	81	83	74	78	72	82	85	89	88	89	86	86	80	81	82	79	80	80	82.9	
	MIN	72	70	69	68	63	63	63	67	65	65	69	68	66	65	65	67	69	67	67	69	66	65	66	67	70	61	61	69	62	59	58	65.8
* * *																																	
ISLAND OF HAWAII																																	
HILO WB AIRPORT 87	EVAP	.00	.03	.12	.03	.11	.08	.11	.07	.12	.24	.21	.09	-	-	.01	.17	-	.00	.07	.13	.16	-	.17	.21	.07	.18	-	-	-	-	-	-
	WIND	36	64	69	71	63	25	46	56	50	59	62	52	101	46	29	47	42	64	23	25	40	26	59	75	40	52	-	-	-	-	-	15768
	MAX	76	83	82	80	83	78	78	84	84	86	84	83	70	72	74	85	78	81	81	83	86	80	83	84	76	79	-	-	-	-	-	80.5
	MIN	66	66	67	66	68	68	67	68	67	63	67	59	66	65	66	67	66	68	65	62	66	68	67	63	61	62	-	-	-	-	-	65.5

See Reference Notes Following Station Index

CLIMATOLOGICAL DATA

HAWAII
DECEMBER 1968
DELAYED DATA

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										90° or Above	80° or Below	70° or Below	60° or Below										
* * * SEPTEMBER 1968 KAANAPALI AIRPORT	88.3	71.6	80.0		91	19+	67	2		4	0	0	0	.49		.29	26	.0	0		1	0	0

DAILY PRECIPITATION

Station		Total	Day of Month																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * *																																	
JANUARY 1968																																	
HUALALAI 72		5.36	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.36	*	*
KIULAKAA A C F 6		13.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.10	*	*
* * *																																	
FEBRUARY 1968																																	
KEAWAKAPU BEACH 260.2		7.81		.09	.04	.02	.11		.43	1.30				.03		.02	.84	1.89	.26			.16	2.11			.36	.15					*	
* * *																																	
MARCH 1968																																	
KEAWAKAPU BEACH 260.2		1.36			.22	T								.39	.61	.02	.04	.01	.07					T								*	
* * *																																	
APRIL 1968																																	
KEAWAKAPU BEACH 260.2		2.86					.26		1.39		.76	.06			.03	.05	.01			.02	.04		.21		.01		.02					*	
* * *																																	
MAY 1968																																	
KEAWAKAPU BEACH 260.2		1.34						.01		1.02	.31																					*	
* * *																																	
JUNE 1968																																	
KEAWAKAPU BEACH 260.2		.00																														*	
MOUNT WAIALEALE 1047		23.90				1.30	.24	.79	.71	1.34	.39	.94	1.30	1.02	2.28	.75	.12	1.30	.47	.47	.63	.16	1.54	.28	.71	.51	.32	.55	.39	1.02	.43	3.94	*
* * *																																	
JULY 1968																																	
MOUNT WAIALEALE 1047		22.47	.75	.04	.20	.24	.08		.04	.04	.67	1.30	1.89	.31	1.10	.04	.35	5.12	.16	1.14	.83	.31	.79	3.62	.43	.39	.08		.24	.39	1.06	3.86	*
* * *																																	
AUGUST 1968																																	
MOUNT WAIALEALE 1047		18.03	2.44	.39		.20	.51	.08	.63	1.30	.83	.31	.98	.51	.24	.91	.16	1.85	.24	.16	.47	2.24	.39	.20	.39	1.22	.67	.43	.12	.04		.12	*
* * *																																	
SEPTEMBER 1968																																	
KAANAPALI AIRPORT		.49	.08					.07													T				.05	T	.29	T				*	
* * *																																	
OCTOBER 1968																																	
MUNIMI UPR CROSS 1083		12.28	6.69	.08	.08			.08	.40	.08			.32	.15	1.80	1.40	.40	.50	.10											.10	.10	*	

See Reference Notes Following Station Index

DAILY TEMPERATURES

HAWAII
DECEMBER 1968
DELAYED DATA

Station				Day of Month																															Average
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																			
FEBRUARY 1968																																			
KEAWAKAPU BEACH 260.2	MAX																																		
	MIN	77	83	81	83	85	85	76	83	81	81	82	83	83	83	80	80	74	84	83	82	75	83	85	85	78	83	86	83					81.7	
		59	54	60	61	55	55	61	53	55	51		63	62	62	67	65	62	63	64	68	65	64	60	63	63	62	64	60					60.8	
* * *																																			
MARCH 1968																																			
KEAWAKAPU BEACH 260.2	MAX	83	85	84	76	82	85	85	84	84	88	86	87	87	79	79	81	81	85	82	78	76	85	83	80	82	85	85	83	81	84	86		82.9	
	MIN	62	65	65	61	63	64	64	61	60	62	61	64	62	69	62	66	66	69	69	65	57	60	65	66	63	65	66	67	66	62	62		63.8	
* * *																																			
APRIL 1968																																			
KEAWAKAPU BEACH 260.2	MAX	83	84	84	82	82	85	86	87	85	80	80	85	85	87	85	86	80	83	85	89	88	85	87	87	85	87	82	88	87	89		84.9		
	MIN	57	60	65	67	59	61	64	64	64	62	64	70	64	63	66	68	67	65	69	69	68	63	65	70	66	66	67	65	65	63		64.9		
* * *																																			
MAY 1968																																			
KEAWAKAPU BEACH 260.2	MAX	87	89	89	89	89	84	85	85	86	85	83	86	85	85	85	85	85	86	87	87	86	90	90	91	89	89	88	89	89	90	89		87.2	
	MIN	60	60	61	58	61	57	59	67	66	68	70	70	68	69	64	64	63	62	65	65	67	67	66	66	65	70	63	63	67	67	65		64.6	
* * *																																			
JUNE 1968																																			
KEAWAKAPU BEACH 260.2	MAX	88	87	89	90	89	87	88	91	90	89	90	89	90	88	89	92	90	89	91	90	90	89	89	90	89	89	89	90	91	87		89.3		
	MIN	63	63	63	66	65	65	67	68	66	65	65	67	67	71	63	65	65	69	66	65	66	68	66	66	64	68	67	67	64	67		65.9		
* * *																																			
SEPTEMBER 1968																																			
KAANAPALI AIRPORT	MAX	87	91	86	87	89	88	89	88	89	87	89	88	87	91	89	89	88	91	91	88	87	89	89	88	88	87	86	87	89	87		88.3		
	MIN	74	67	73	72	70	73	70	72	71	73	72	71	73	70	77	73	71	73	71	73	72	69	73	73	69	72	70	73	68	70		71.6		

CORRECTIONS

DATE	TABLE	DIVISION	STATION	CORRECTION
NOVEMBER 1968	DAILY PRECIPITATION	ISLAND OF KAUAI	MOHIHI UPR CROSSING 1083	TOTAL PRECIPITATION 14.50

STATION INDEX

HAWAII
DECEMBER 1968

STATION										STATION									
STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES	OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES	OBSERVER
STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP PRECIP ETAP SPECIAL REMARKS	OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP PRECIP ETAP SPECIAL REMARKS	OBSERVER
ISLAND OF KAUAI										ISLAND OF LANAI									
KAHUNA RESERV 75	1042	02	KOOLA	2	21 57 19.9	152 32	1610		MC BRYCE SUGAR CO	KANAPU 570	A 3130	01	LANAII	1	20 53 157 00	1640			DOLE COMPANY
KAHUNA RESERV 76	1043	02	KOOLA	2	22 09 15.9	152 33	1110	7A	LIHUE PLANTATION CO	KANAPUAPAPA HARBOR 658	A 3461	01	LANAII	1	20 47 157 00	30	W	DOLE COMPANY	
KAHUNA RESERV 77	1044	02	KOOLA	2	22 16 15.9	152 32	720	7A	MC BRYCE SUGAR CO LTD	HALEAKALA 572	A 3501	01	LANAII	1	20 51 157 00	1420	7A	DOLE COMPANY	
KAHUNA RESERV 78	1045	02	KOOLA	2	22 26 15.9	152 32	350	7A	MC BRYCE SUGAR CO LTD	LANAIIA 684	A 5501	01	LANAII	1	20 49 156 53	3370	W	DOLE COMPANY	
KAHUNA RESERV 79	1046	02	KOOLA	2	22 36 15.9	152 32	163	7A	LIHUE PLANTATION CO	HALEAKALA 694	A 5501	01	LANAII	1	20 53 156 55	1470	W	DOLE COMPANY	
KAHUNA RESERV 80	1047	02	KOOLA	2	22 46 15.9	152 32	107	7A	MC BRYCE SUGAR CO LTD	HALEAKALA 704	A 5501	01	LANAII	1	20 55 156 57	1135	W	DOLE COMPANY	
KAHUNA RESERV 81	1048	02	KOOLA	2	22 56 15.9	152 32	40	7A	LIHUE PLTN CO LTD	HALEAKALA 714	A 5501	01	LANAII	1	20 57 156 59	2040	W	DOLE COMPANY	
KAHUNA RESERV 82	1049	02	KOOLA	2	23 06 15.9	152 32	10	7A	GROVE FARM CO LTD										
KAHUNA RESERV 83	1050	02	KOOLA	2	23 16 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 84	1051	02	KOOLA	2	23 26 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 85	1052	02	KOOLA	2	23 36 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 86	1053	02	KOOLA	2	23 46 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 87	1054	02	KOOLA	2	23 56 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 88	1055	02	KOOLA	2	24 06 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 89	1056	02	KOOLA	2	24 16 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 90	1057	02	KOOLA	2	24 26 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 91	1058	02	KOOLA	2	24 36 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 92	1059	02	KOOLA	2	24 46 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 93	1060	02	KOOLA	2	24 56 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 94	1061	02	KOOLA	2	25 06 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 95	1062	02	KOOLA	2	25 16 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 96	1063	02	KOOLA	2	25 26 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 97	1064	02	KOOLA	2	25 36 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 98	1065	02	KOOLA	2	25 46 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 99	1066	02	KOOLA	2	25 56 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 100	1067	02	KOOLA	2	26 06 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 101	1068	02	KOOLA	2	26 16 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 102	1069	02	KOOLA	2	26 26 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 103	1070	02	KOOLA	2	26 36 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 104	1071	02	KOOLA	2	26 46 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 105	1072	02	KOOLA	2	26 56 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 106	1073	02	KOOLA	2	27 06 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 107	1074	02	KOOLA	2	27 16 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 108	1075	02	KOOLA	2	27 26 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 109	1076	02	KOOLA	2	27 36 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 110	1077	02	KOOLA	2	27 46 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 111	1078	02	KOOLA	2	27 56 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 112	1079	02	KOOLA	2	28 06 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 113	1080	02	KOOLA	2	28 16 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 114	1081	02	KOOLA	2	28 26 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 115	1082	02	KOOLA	2	28 36 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 116	1083	02	KOOLA	2	28 46 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 117	1084	02	KOOLA	2	28 56 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 118	1085	02	KOOLA	2	29 06 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 119	1086	02	KOOLA	2	29 16 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 120	1087	02	KOOLA	2	29 26 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 121	1088	02	KOOLA	2	29 36 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 122	1089	02	KOOLA	2	29 46 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 123	1090	02	KOOLA	2	29 56 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 124	1091	02	KOOLA	2	30 06 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 125	1092	02	KOOLA	2	30 16 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 126	1093	02	KOOLA	2	30 26 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 127	1094	02	KOOLA	2	30 36 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 128	1095	02	KOOLA	2	30 46 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 129	1096	02	KOOLA	2	30 56 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 130	1097	02	KOOLA	2	31 06 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 131	1098	02	KOOLA	2	31 16 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 132	1099	02	KOOLA	2	31 26 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 133	1100	02	KOOLA	2	31 36 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 134	1101	02	KOOLA	2	31 46 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 135	1102	02	KOOLA	2	31 56 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 136	1103	02	KOOLA	2	32 06 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 137	1104	02	KOOLA	2	32 16 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 138	1105	02	KOOLA	2	32 26 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 139	1106	02	KOOLA	2	32 36 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 140	1107	02	KOOLA	2	32 46 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 141	1108	02	KOOLA	2	32 56 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 142	1109	02	KOOLA	2	33 06 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 143	1110	02	KOOLA	2	33 16 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 144	1111	02	KOOLA	2	33 26 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 145	1112	02	KOOLA	2	33 36 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 146	1113	02	KOOLA	2	33 46 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 147	1114	02	KOOLA	2	33 56 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 148	1115	02	KOOLA	2	34 06 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 149	1116	02	KOOLA	2	34 16 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 150	1117	02	KOOLA	2	34 26 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 151	1118	02	KOOLA	2	34 36 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 152	1119	02	KOOLA	2	34 46 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 153	1120	02	KOOLA	2	34 56 15.9	152 32	0	7A	LIHUE PLTN CO LTD										
KAHUNA RESERV 154	1121	02	KOOLA	2	35 06 15.9	152 32	0	7A	KEKAHA SUGAR CO LTD										
KAHUNA RESERV 155	1122	02	KOOLA	2	35 16 15.9	152 32	0	7A	LIHUE PLTN CO LTD										

STATION INDEX

HAWAII
DECEMBER 1960

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
MAKALEU 14	6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NARDOPPO 28	6697	04	S KONA	4	19 28	155 55	395	7A				KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400	VAR				HAWAII VOLCANOES NAT PK
NIULI 179	6806	01	N KOHALA	1	20 14	155 45	75	6A				KOHALA SUGAR CO
OKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A				LAUPAHEGE SUGAR CO
OPTIMALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A				MISS C LEONARD
ORCHID LAND EST 91.5	7185	07	PUNA	2	19 34	155 00	445	VAR				BOARD OF WATER SUPPLY
PAUHAU 217	7204	01	HAWAII	1	20 05	155 26	415	7A				PAUHAU SUGAR CO
PAUJLO 221	7312	01	HAWAII	1	20 03	155 22	800	7A				HAWAII HILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGRI CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670	6A				PUNA SUGAR COMPANY
PAKA 37	7643	03	KAU	3	19 22	155 28	5020	MO				HAWAIIAN RANCH CO, INC.
PAPAIOU 144.1	7711	02	S HILO	2	19 47	155 06	200	7A				MAUNA KEA SUGAR CO.
PAPAIOU MAKA 140.1	7721	02	S HILO	2	19 47	155 08	1270	7A				MAUNA KEA SUGAR CO.
PEPEKEO MAKA 144	8000	02	S HILO	2	19 51	155 05	100	7A				PEPEKEO SUGAR CO
PIMONUA 89	8051	02	S HILO	2	19 44	155 10	1730	MO				STATE DIV OF FORESTRY
POMAKUOLA 107	8063	02	HAWAII	1	19 45	155 32	651	VAR				STATE DIVISION OF PARKS
PUAKO 94.1	8186	05	KOHALA	5	19 59	155 10	5	6A				ERWIN H. RAPP
PUU KIME 120	8393	01	HAWAII	1	19 54	155 24	7750	MO				KUKIAU RANCH CO

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-INO INTRA-ISLAND DIVISIONS LANAI: 1-INO INTRA-ISLAND DIVISIONS MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII"

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extreme", "Daily Precipitation", "Daily Temperature", "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the "Evaporation and Wind" table. Max and Min in "Evaporation and Wind" table refer to extremes of temperature of water in pan as recorded during 24-hours ending at time of observation.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + Add also on an earlier date or date.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shows following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletins. If daily amounts are published in "Climatological Data" bulletins they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletins.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

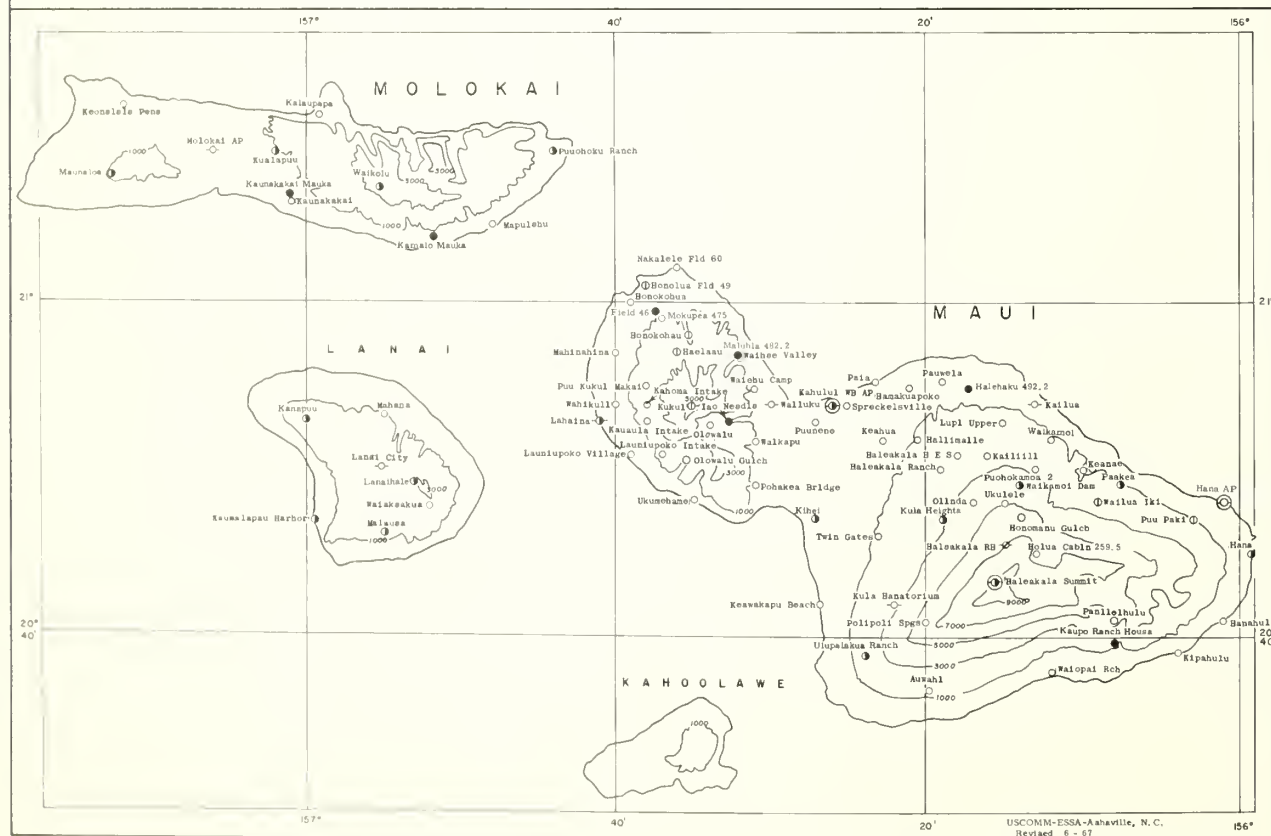
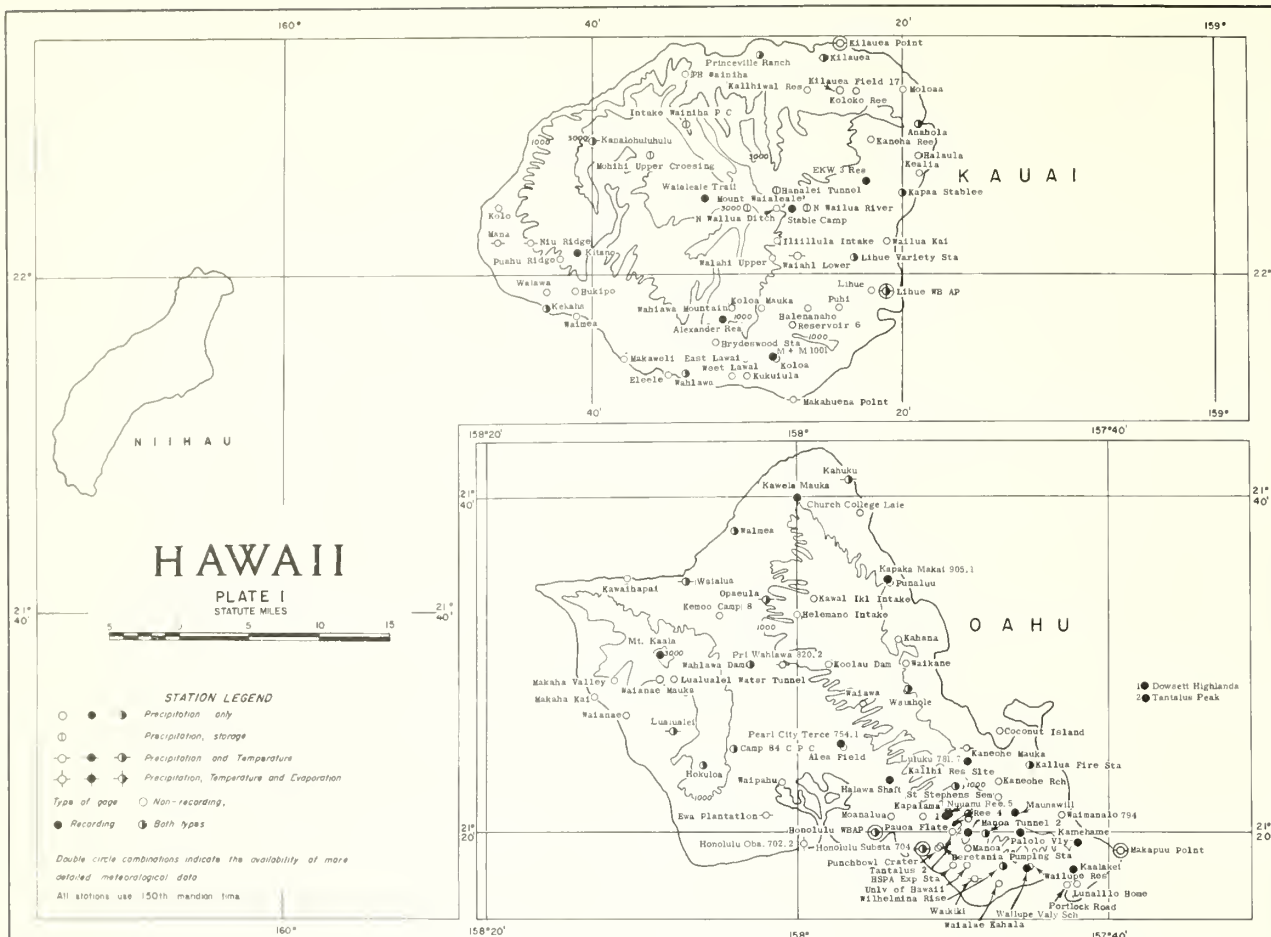
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

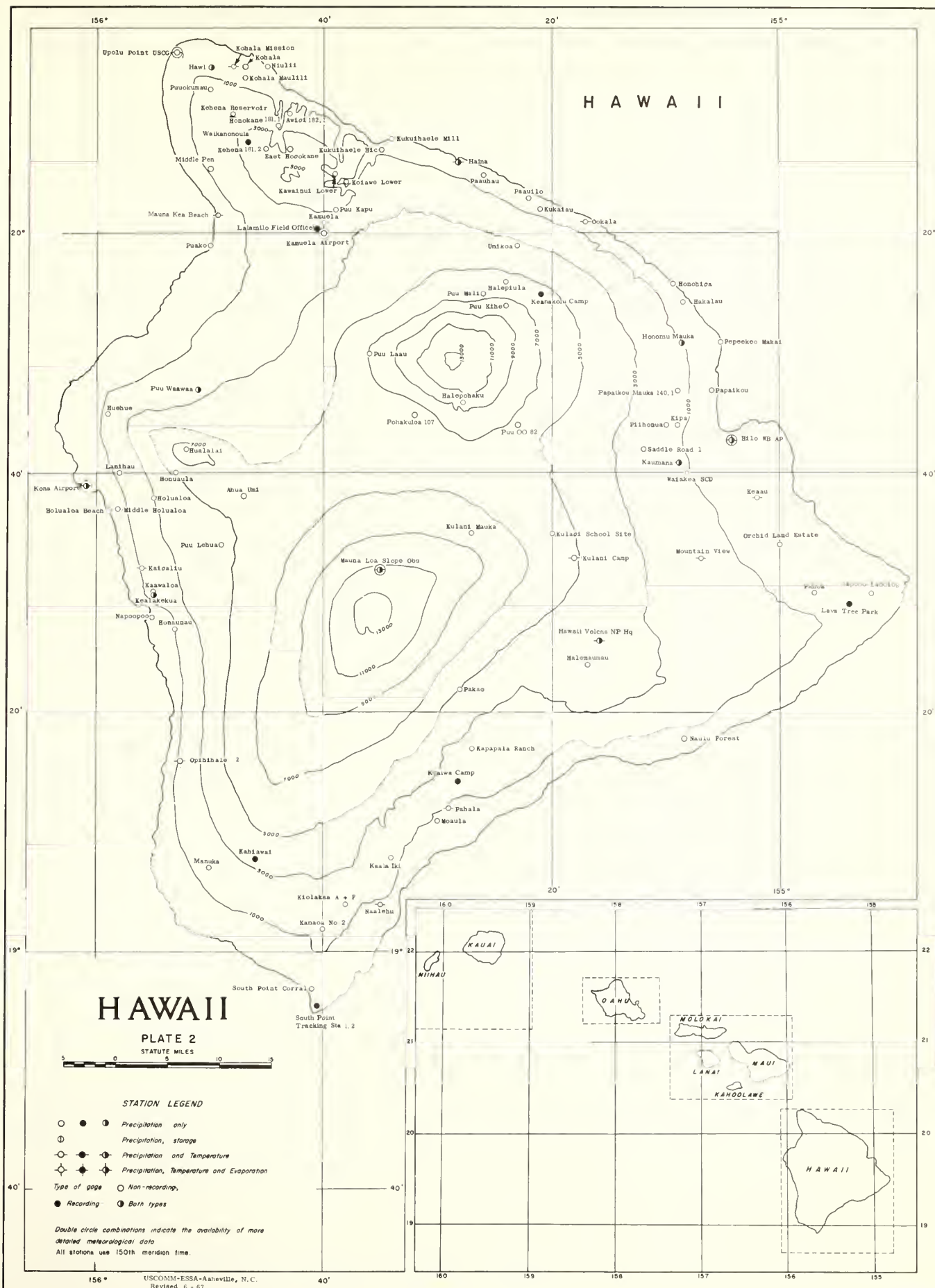
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposures, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHVILLE-5/31/69-890







TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII
1968

Table 2

		January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Station	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
ISLAND OF KAUAI																											
	ANAHOLA 1111	7.44	.72	2.95	-2.51	4.00	-2.24	6.77	2.66	1.36	-1.59	1.15	-.50	3.06	.67	1.59	-1.30	2.37	.24	10.98	6.06	7.69	2.93	32.58	27.18	81.94	32.35
	ARYDESADON STA 985	10.68	3.49	5.20	-.96	4.01	-1.76	9.11	5.54	.74	-2.58	2.13	-1.08	4.00	-.10	2.10	-3.04	2.06	-1.46	11.32	6.26	4.59	-.78	21.98	14.78	77.92	18.31
	EAST LAHAI 934	10.29	3.47	5.42	-.61	5.04	-.90	5.93	1.57	1.58	-2.22	2.38	-1.37	6.17	1.20	3.03	-3.14	2.14	-2.00	9.54	4.24	3.94	-.19	22.64	15.60	78.10	13.84
	ELE-E 927	9.56	4.76	3.04	-.90	1.35	-1.98	2.13	.44	-1.10	-1.10	2.46	-.56	4.28	2.32	1.79	-1.11	4.00	1.71	9.95	5.36	8.68	3.49	31.50	25.98	86.22	36.36
	HALAULA 1110	4.67	-.24	3.01	-2.34	4.32	-1.72	6.63	9.71	1.00	-1.08	1.19	-.72	5.85	2.32	1.79	-1.11	4.00	1.71	9.95	5.36	8.68	3.49	31.50	25.98	86.22	36.36
	HALEMANAHO 1006	11.06		5.93		7.91		6.73		2.35		2.45		6.68		4.28		5.31		15.88		4.81		33.48		106.87	
	HAKIPU 945	5.59		4.88		.91		1.93		.18		.00		.52		.72		.72		9.79		4.08		18.02		47.33	
	HALEMANAHO INTAKE 1040	16.89		8.40		16.10		13.62		3.84		8.94		13.71		9.44		7.89		15.91		12.64		36.38		166.76	
	INTAKE MAHINA PK 1086	8.45		6.85		30.02		19.24		5.19		3.98		10.69		4.80		5.35		10.53		50.61		25.14		180.85	
	KALIMANI RES 1131	10.57		2.63		20.55		13.00		4.08		2.85		7.02		5.09		5.84		11.11		11.58		13.56		107.88	
	KANALCHULUWU 1075	11.02		16.33		6.94		8.68		.54		1.01		1.84		1.69		2.38		9.89		15.58		21.77		98.27	
	KANENA RESERVOIR 1092	8.62		4.17		12.83		17.43		3.11		2.52		7.65		5.32		6.44		16.15		23.05		25.62		133.11	
	KAPAA STABLES 1104	7.75		3.46		6.06		9.13		1.56		1.38		4.89		1.75		3.88		11.01		10.37		28.25		89.49	
	KERANA 944	5.65	1.00	2.83	-1.86	3.45	-1.85	5.60	2.24	1.87	-.32	1.10	-.53	2.86	.75	.92	-1.61	2.96	.88	9.93	6.13	6.83	2.34	26.88	22.05	71.93	29.22
	KERANA 944	5.65	1.97	3.92	1.00	1.16	-1.37	1.59	.52	-.20	-.56	.04	-.30	.72	.34	-.36	-.01	.42	-.26	7.84	6.00	4.70	3.11	15.71	12.42	42.31	22.24
	KILAUWA 1134	7.71	-.42	3.21	-2.91	9.93	2.54	6.13	.62	2.44	-2.56	1.39	-1.88	4.75	.31	2.47	-2.52	5.68	2.07	12.85	7.71	9.27	3.30	11.04	3.84	77.57	10.10
	KILAUWA FIELD 17 1135	9.82	-.27	2.51	-5.67	13.56	3.68	11.03	3.22	3.24	-4.35	2.56	-2.49	6.74	-.07	3.69	-4.00	5.39	.11	13.79	6.72	12.20	3.92	14.44	4.93	98.87	5.73
	KILAUWA POINT 1133	6.55		3.73		11.12		7.43		1.94		2.27		2.83		3.08		8.64		11.37		9.14		5.88		77.94	
	KOLD 1033	4.84		5.87		.93		1.11		.00		.00		.91		.81		1.12		5.75		5.34		13.60		40.28	
	KOLD 936	10.39	3.48	4.88	-1.36	5.96	-.67	4.43	-.30	1.78	-2.57	1.97	-1.72	6.76	1.70	3.50	-3.02	3.15	-1.23	10.63	5.32	5.12	-.25	25.43	17.81	84.00	16.49
	KOLD MAUKA 994	12.54	2.77	7.22	-2.11	7.81	-.84	8.95	1.89	2.15	-4.01	2.60	-3.12	7.86	.49	5.10	-3.70	4.60	-1.78	14.50	6.56	6.00	-.167	34.33	24.14	113.86	18.62
	KOLD MAUKA 994	9.59		2.82		12.27		10.34		4.40		2.52		3.96		3.78		5.88		13.32		16.55		15.27		102.30	
	KUMUWUA 935	8.11	2.75	3.65	-.82	2.19	-2.17	2.73	.32	.80	-1.11	.76	-.65	3.09	1.03	1.00	-2.24	.95	-1.31	7.66	4.29	3.37	-.46	18.98	13.37	59.29	12.82
	KUMU VARIETY STA	8.82		3.93		9.84		7.53		1.62		2.95		4.07		E 3.59		E 4.84		13.88		13.37		21.41		E 95.85	
	LIMU 1020	8.93	2.48	4.33	-1.39	6.53	1.01	2.68	-1.20	.62	-3.12	1.43	-.86	2.90	-.12	1.34	-2.19	5.78	2.88	12.81	7.83	11.03	5.90	24.18	18.00	82.54	29.46
	LIMU HP AO 1020.1	7.43	1.92	3.69	-1.63	7.25	2.69	1.84	-1.50	.42	-2.17	1.23	-.23	1.70	-.24	7.07	-1.76	3.17	1.09	9.93	5.90	8.62	4.09	22.91	17.73	68.89	25.89
	MAKAHUNA POINT 940.1	5.56		4.88		2.44		1.84		.64		.74		1.72		.67		.98		8.95		7.92		10.07		46.41	
	MAKAWALI 965	7.36	3.47	3.13	-.51	1.82	-1.68	1.28	.15	-.09	-.77	.34	-.03	4.87	-.14	1.22	-1.12	1.78	.85	5.60	3.31	10.14	3.59	10.07	10.19	46.41	27.08
	MAKA 1020	5.01	.92	3.87	1.08	1.55	-1.20	.97	-.28	.13	-.77	.00	-.94	1.87	1.31	.99		1.34	.55	6.20	4.15	7.50	5.45	16.40	11.10	42.96	20.91
	MOHIMI JPA CROSS 1083	10.65		12.79		12.31		12.94		.80		1.91		2.71		.99		3.46		12.28		14.50		54.40		139.74	
	MOLDIA 1145	5.87	-1.04	2.31	-3.39	4.15	-2.33	8.39	4.28	1.87	-1.48	.88	-.83	2.47	.09	1.24	-1.81	1.59	-.59	10.33	5.91	7.40	2.39	16.74	11.53	63.44	12.73
	MOUNT MALEALE 1047	5.60		5.00		1.13		2.28		.14		.17		2.02		.19		1.14		9.47		5.14		17.23		49.51	
	N MAI UA OIUM 1051	19.10		9.55		18.22		17.08		6.89		9.34		14.12		11.94		9.95		14.29		14.36		43.77		188.59	
	PAI MAHINA 1115	9.70	-.27	8.44	-3.21	28.40	13.95	9.76	-2.51	5.90	-3.26	3.60	-2.38	10.72	.64	4.52	-6.13	4.49	-1.58	8.74	.50	19.75	9.78	17.73	2.18	130.05	7.71
	PRINCEVILLE RANCH 1117	7.87	-.46	3.24	-4.14	18.79	9.21	9.11	2.33	3.31	-3.03	2.31	-2.71	7.30	1.13	3.94	-3.38	6.24	1.42	9.92	3.62	11.76	3.91	12.92	3.32	96.31	11.22
	PUEHU RIDGE 1040	5.61		7.54		1.92		2.49		.45		.05		.99		.49		2.41		8.60		5.57		19.24		55.36	
	PUEHU 1013	9.27		9.17		6.90		2.79		1.36		1.73		3.87		2.37		4.08		13.43		4.99		29.09		85.79	
	RAHAWA 930	11.53	4.09	3.18	-1.07	6.31	-1.70	5.26	.18	2.08	-2.40	1.94	-1.82	7.30	1.96	3.38	-3.12	4.40	-.35	13.66	7.39	8.26	1.49	74.26	25.72	101.24	28.39
	RAHAWA 930	9.73	4.09	3.18	-1.07	6.31	-1.70	5.26	.18	2.08	-2.40	1.94	-1.82	7.30	1.96	3.38	-3.12	4.40	-.35	13.66	7.39	8.26	1.49	74.26	25.72	101.24	28.39
	RAHAWA 930	9.73	4.09	3.18	-1.07	6.31	-1.70	5.26	.18	2.08	-2.40	1.94	-1.82	7.30	1.96	3.38	-3.12	4.40	-.35	13.66	7.39	8.26	1.49	74.26	25.72	101.24	28.39
	RAHAWA 930	9.73	4.09	3.18	-1.07	6.31	-1.70	5.26	.18	2.08	-2.40	1.94	-1.82	7.30	1.96	3.38	-3.12	4.40	-.35	13.66	7.39	8.26	1.49	74.26	25.72	101.24	28.39
	RAHAWA 930	9.73	4.09	3.18	-1.07	6.31	-1.70	5.26	.18	2.08	-2.40	1.94	-1.82	7.30	1.96	3.38	-3.12	4.40	-.35	13.66	7.39	8.26	1.49	74.26	25.72	101.24	28.39
	RAHAWA 930	9.73	4.09	3.18	-1.07	6.31	-1.70	5.26	.18	2.08	-2.40	1.94	-1.82	7.30	1.96	3.38	-3.12	4.40	-.35	13.66	7.39	8.26	1.49	74.26	25.72	101.24	28.39
	RAHAWA 930	9.73	4.09	3.18	-1.07	6.31	-1.70	5.26	.18	2.08	-2.40	1.94	-1.82	7.30	1.96	3.38	-3.12	4.40	-.35	13.66	7.39	8.26	1.49	74.26	25.72	101.24	28.39
	RAHAWA 930	9.73	4.09</																								

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII
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Table 2-Continued

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
WAILUA 847	8.52	4.42	3.10	1.65	6.91	3.41	3.58	1.86	1.08	-.02	-.22	-.50	1.00	-.26	-.09	1.25	1.80	1.01	3.25	.56	4.82	2.47	9.40	5.46	43.83	15.99
WAIKANE 798	6.41	2.62	3.77	-.64	1.26	1.07	1.78	.66	-.49	-.12	-.02	-.33	-.24	-.14	-.00	-.84	2.24	1.47	2.67	.80	4.90	3.09	10.11	7.45	33.87	14.23
WAIKANE MAUKA 803	13.09	4.31	7.54	-.11	9.39	1.53	10.10	5.31	2.16	1.99	-.82	2.30	1.76	2.00	-.41	3.95	3.78	.51	7.62	2.24	10.41	5.62	22.20	13.16	89.28	22.27
WAIANA 836	21.37	9.73	6.40	8.54	21.23	7.39	16.08	4.08	2.09	7.64	6.40	4.44	2.09	11.21	6.46	7.95	9.70	-.27	12.10	1.08	16.74	4.64	22.05	6.56	142.82	5.27
WAIKANE 885	12.13	-.26	7.44	5.78	29.60	14.36	21.33	7.33	5.89	5.97	3.90	4.08	4.52	6.24	5.57	6.10	13.66	3.12	8.39	3.56	14.98	3.62	25.79	11.55	153.20	6.71
WAIKIKI 717.2	6.03		2.80		1.78		1.36		1.34		.54		.10		.13		1.61		2.01		4.51		9.53		30.83	
WAILUKE RESV. 723.2	6.32		3.23		9.35		3.58		1.34		.89		.78		.51		2.06		4.08		6.82		11.17		50.13	
WAIHANALO 794	8.26		4.46		10.01		4.22		3.96		.85		.64		.20		1.55		2.50		7.64		14.62		58.91	
WAIKANE 892	7.65	2.27	3.58	2.32	15.05	9.71	7.11	3.86	.97	1.69	2.19	.35	2.36	.63	1.43	2.01	1.92	.00	6.24	2.33	6.93	2.78	8.39	2.87	63.82	16.80
WAIKANE 730	9.79	5.63	2.69	1.00	2.20	-.98	3.68	1.80	1.12	-.04	-.17	-.43	-.66	-.01	-.12	1.11	2.26	1.18	5.18	2.84	4.78	2.22	9.86	6.32	42.51	16.36
WILHELMINA RISE 721	7.14	2.51	3.66	-.36	6.50	1.98	5.32	2.12	1.12	1.32	1.64	.18	.96	-.90	.96	1.29	2.36	.70	4.10	.82	9.02	5.98	12.54	8.26	55.32	16.66
ISLAND	10.12		3.68		11.93		7.45		2.22		1.79		1.91		1.31		3.99		5.37		7.42		12.16		69.35	
ISLAND OF MOLOKAI																										
KALAUPAPA 563	10.67		6.11		21.49		5.90		2.50		E .33		E 1.56		2.59		1.43		3.48		2.76		12.91		71.73	
KANAKAKAI 336	9.16		4.67		.88		1.07		.92		.00		.00		.00		.26		2.44		.00		10.66		30.06	
KEONESELE PENS 551	7.29		4.35		3.45		3.22		1.70		.47		.00		.53		.65		4.66		1.09		12.26		38.71	
KUALAPUU 534	8.55	4.41	7.85	4.21	8.55	3.99	4.92	1.86	1.23	-.35	-.18	-.49	1.81	.93	1.72	1.50	1.27	.48	4.36	.42	1.00	2.01	15.01	10.75	54.02	23.71
MAPULEHU 542	10.90	7.04	8.41	4.31	5.80	1.58	6.23	3.18	1.41	1.31	2.47	.28	2.08	-.84	1.72	1.18	2.68	.01	3.46	.05	5.80	2.15	8.36	4.15	59.32	19.48
MAUNALO 511	A 6.73	2.46	5.22	2.14	3.40	-.37	4.57	2.26	1.80	-.67	-.23	-.52	1.40	-.86	.81	-.39	1.66	.58	3.40	1.93	2.67	-.08	12.35	8.85	43.14	15.30
MOLOKAI AP 524	E 5.62		3.81		2.39		1.14		1.12		E .23		E 1.44		.30		1.07		3.86		2.51		9.93		42.62	
PUUOHOKU RANCH 542.1	11.27		9.75		11.78		6.10		1.27		E 1.55		E 1.02		2.53		3.33		1.93		2.04		12.04		64.61	
WAIKOLU 540	A 16.90		12.90		17.29		20.41		2.55		E 1.58		E 1.88		2.02		4.42		7.00		2.62		47.62		137.19	
ISLAND	8.68		7.28		5.39		4.53		1.15		.72		1.43		.89		1.67		3.62		3.02		11.41		49.79	
ISLAND OF LANAI																										
KANEPUU 690	A 6.82		7.61		3.99		5.46		1.53		.45		1.19		.28		2.95		2.24		2.81		7.54		42.87	
KAUWALAPU HARBOUR 658	A 4.48		4.93		2.62		1.06		1.09		.13		.62		.54		4.13		1.38		3.32		5.07		33.80	
KEANAKAPU 672	7.29	2.67	4.61		1.29	13.01	10.09	1.06	2.20	-.45	-.42	-.49	1.62	-.27	1.62	-.18	6.88	6.58	4.48	1.53	4.38	1.53	8.67	4.95	66.87	31.88
LANAIHALE 684	A 4.43		2.90		5.49		7.92		2.83		.42		3.03		2.02		11.30		4.41		4.54		8.99		58.32	
MAHANA 694	A 6.78		8.49		6.03		10.00		1.55		.33		.11		.15		1.32		3.55		3.56		9.46		51.33	
MAHANA 676	A 6.37		6.99		2.65		4.18		1.92		.03		.86		.73		1.52		4.09		1.83		8.55		39.42	
WAIKAEKUA 685	A 7.51		7.13		3.16		5.39		2.16		.03		1.35		.42		3.89		3.65		3.91		14.02		52.62	
ISLAND	7.29		8.34		5.62		13.01		2.22		.93		1.45		1.63		8.85		4.48		4.38		8.67		66.87	
ISLAND OF MAUI																										
AUWAHI-252	A 9.15		15.15		3.65		10.68		3.93		.10		1.50		.45		1.33		5.86		1.55		15.05		68.40	
HALEKAKALA 8 E 5 434	A 4.52	2.88	5.48	3.64	14.50	5.29	12.64	4.68	2.63	1.77	2.15	-.63	2.94	1.19	1.39	3.29	5.47	3.17	3.80	-.49	16.05	9.81	13.32	2.86	84.89	11.92
HALEKAKALA RANCH 432	A 4.05	1.78	5.62	-.86	8.14	2.38	9.78	5.16	2.02	1.18	1.33	-.45	.62	-.90	.47	1.70	1.08	-.24	2.51	-.16	10.75	7.31	11.29	4.66	56.78	13.58
HALEKAKALA RS 336	A 8.26		18.76		6.97		12.38		1.18		.90		.90		.52		4.53		8.87		15.86		9.14		73.80	
HALEKAKALA SUMMIT 338.4	E 11.93		9.47		5.26		19.04		4.42		.55		1.45		.39		5.99		3.17		5.73		6.40		73.80	
HALIIMAILE 423	A 3.99		5.54		7.86		4.64		2.45		.79		1.55		.97		1.07		1.81		8.18		10.99		49.84	
HAUAKAPOKO 485	A 7.50	2.73	4.34	-.36	12.24	6.70	5.48	.59	2.69	-.59	2.09	-.72	2.05	1.41	1.88	1.82	2.38	.24	2.82	-.85	6.79	2.78	8.97	2.88	58.99	10.15
HANA 354	A 8.45		5.31		11.35		12.65		4.21		E 4.26		2.51		1.91		6.24		1.07		12.87		7.97		81.80	
HANA AIRPORT 355	A 11.24		2.93		16.81		26.67		4.24		3.60		3.98		3.94		12.05		4.00		12.76		8.41		109.75	
HANAHULI 281	A 11.96		9.53		12.55		27.20		8.25		4.92		6.08		6.20		12.28		6.26		13.01		10.51		129.23	
HOLUA CABIN 259.5	A 11.85		8.28		5.62		13.42		4.43		.74		.93		.26		5.32		3.44		.35		42.70		97.34	
HONOKOMAU 480	A 7.50		12.00		44.00		22.20		7.60		3.50		6.70		4.30		4.70		2.40		12.76		28.00		155.66	
HONOKOMUA 493	A 6.89	2.83	6.12	2.38	9.63	5.55	5.75	2.57	2.12	-.14	-.90	-.78	1.26	1.12	1.37	1.21	1.55	-.13	3.32	.64	3.18	-.14	8.94	4.29	51.03	14.74
HONOMANU GULCH 341	A 7.20		9.40		12.40		19.00		2.43		2.42		2.60		2.60		6.20		5.20		19.40		14.20		102.05	
KANAPALI AIRPORT	A 7.73		6.42		3.91		2.69		1.11		.7		.25		.03		.49		3.2		2.49		8.24		33.98	
KAHOMA INTAKE 374	A 7.97	1.38	12.50	2.58	12.27	.69	12.49	3.36	7.91	-.40	5.72	1.43														

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII
1968

Table 2--Continued

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
MAIOWAI RANCH 256	6.83	2.88	10.99	7.59	1.03	-1.97	15.17	13.25	3.35	2.77	.30	.08	.42	.09	.13	-.81	2.66	1.71	5.84	4.20	.47	-1.89	12.05	8.68	59.24	36.56
ISLAND	8.00		7.16		13.56		12.27		3.35		2.43		3.11		2.64		4.76		3.56		8.53		11.67		81.04	
ISLAND OF HAWAII																										
AMUA UMI 75	4.20	2.13	3.30	1.13	2.50	-.49	10.30	8.02	4.90	2.44	3.70	1.98	2.40	.53	6.00	3.01	8.80	7.18	3.50	1.61	1.30	-.30	4.75	3.47	55.65	30.71
AMUNI 182.1	8.48	-2.14	8.11	-3.32	42.12	26.13	27.05	10.12	11.87	-.54	7.11	-1.06	4.72	-7.94	4.97	-7.34	4.73	-1.60	2.72	-5.96	2.79	-7.42	28.11	14.22	152.78	13.15
EAST HONOLULU 183.2	11.44	-1.69	11.33	-1.61	22.71	-3.78	23.70	5.18	10.53	-3.74	9.38	-3.32	8.34	-7.92	6.50	-9.68	7.50	-1.10	1.30	-9.03	1.35	-6.53	18.04	-.02	136.32	-35.00
KAHUNA 214	3.37	-1.68	1.62	-5.31	20.47	11.91	13.16	5.49	7.12	2.20	3.65	1.75	2.34	-1.12	3.09	-1.55	1.16	-1.13	1.49	-3.76	2.20	-3.47	18.39	10.69	78.06	14.00
KAHALA 142	5.40	-5.25	9.59	-3.91	15.56	.67	29.79	17.24	4.45	-5.40	8.42	1.59	8.48	-1.35	7.40	-4.38	11.48	3.56	5.05	-6.20	5.03	-7.31	26.81	12.19	137.45	1.37
HALEPAHUAU 52	14.48		1.89		3.46		12.06		4.04		3.07		2.62		2.21		1.98		3.29		4.79		15.30		69.19	
HALEPAHUAU 117	3.86	.14	3.05	2.67	4.62	-.34	10.37	6.30	2.55	2.06	1.85	.82	1.89	.26	1.43	3.34	4.00	2.42	2.00	-1.51	1.66	1.59	9.07	3.62	49.11	6.15
HALEPAHUAU 111							7.08		1.11		2.10		1.75		.09		1.91				2.97					
HAWAII VOLCANO NP HQ 54	15.23	3.01	5.39	4.86	6.62	5.31	19.85	11.45	6.55	.48	8.73	4.20	4.99	-.13	4.74	-2.85	4.57	-.52	6.47	-.41	4.51	-5.67	20.54	10.40	108.19	9.74
HAWI 168	8.52	3.82	6.43	2.09	15.32	10.10	14.38	9.34	1.77	-1.79	2.80	-1.16	2.91	-1.02	2.04	-2.15	1.44	-.83	2.25	-1.36	2.17	-1.85	8.63	2.71	68.66	16.90
HAWI AIRPORT 87	4.77	-7.05	11.46	-1.48	10.21	-.44	29.68	17.76	1.71	-.62	8.72	1.93	7.43	-.29	9.62	-1.82	8.53	-.03	5.97	-4.83	10.22	-1.55	24.82	9.64	134.14	-2.48
HOLUALOA 70	8.00	3.49	6.44	2.13	7.40	1.16	17.70	10.53	5.80	-4.20	2.40	-7.31	9.35	.97	3.98	-3.87	8.40	-.29	20.60	14.73	2.20	-1.94	12.80	10.34	105.07	26.32
HOLUALOA BEACH 68	4.11	1.81	2.64	.78	1.62	-.85	7.72	5.41	1.95	-.70	2.16	-1.17	6.33	3.79	6.18	3.33	1.12	-1.59	8.18	5.68	2.20	-1.57	6.68	1.34	48.86	20.02
HONOLULU 27	5.75	3.60	3.15		7.02		14.75		2.01		3.90		4.88		7.08		10.15		2.92		2.62		6.14		59.28	
HONOLULU 137	6.84	-.49	11.48	-4.17	17.66	-.28	26.18	10.69	5.03	-7.28	8.73	1.01	8.96	-3.01	8.61	-5.11	10.26	1.05	4.43	-8.44	5.79	-7.92	27.64	10.45	141.61	-17.94
HONOLULU 181.1	4.91	-2.36	7.69	-4.84	38.10	-21.02	28.76	12.11	16.46	5.07	5.46	-3.54	5.85	-6.83	3.65	-6.77	4.73	-.98	2.69	-5.82	4.84	-5.79	21.23	4.83	148.65	4.10
HONOLULU 138	8.40	5.40	1.58	2.27	1.15	3.31	21.13		7.80	-7.80	5.13		4.24		7.45	-2.13	13.06	1.31	1.30	8.68	7.45	-10.22	32.04	11.44	3.75	3.94
HONOLULU 71	1.00	-2.77	8.00	-4.57	4.40	-3.00	18.40	15.41	1.60	-3.03	1.40	-2.70	1.00	-1.77	2.60	-.74	3.40	-.00	3.40	1.18	.80	-.84	6.20	4.65	54.20	15.02
HUALALAI 72	4.56	3.60	4.40	2.55	2.40	.35	8.10	6.71	1.20	-.66	.82	-.59	1.86	.35	1.69	-.27	1.22	-.53	2.20	1.26	.60	-.00	3.50	2.88	33.35	16.19
HUEHUE 92.1	6.20	2.07	4.79	2.08	3.54	-.17	15.13	12.12	.94	-.27	2.73	-1.77	3.91	1.41	6.26	3.54	4.57	1.34	4.33	.74	.83	-2.10	6.64	2.28	63.87	23.81
KAALA IKI 12	11.24		6.16		6.49		10.85		4.40		3.31		5.25		1.09		6.36		8.57		4.25		13.84		81.81	
KAHALA 29	5.38	1.65	3.12	.28	1.75	-3.15	11.28	6.32	2.22	-4.15	2.30	-4.33	7.19	.11	6.40	-.19	6.86	-.05	3.14	-2.68	1.07	-2.51	8.04	5.21	58.81	-4.05
KANALAU 73-5	5.96	2.00	4.25	.86	2.05	-3.23	10.16	5.30	5.07	-2.63	4.31	-3.64	9.24	.65	7.18	-.52	6.07	-1.53	3.98	-2.22	2.01	-2.26	8.29	5.28	69.35	-1.91
KANALAU NP 1 67.8	9.32		4.79		2.23		12.60		1.22		4.75		2.42		1.12		1.73		3.61		2.06		8.01		53.86	
KAMAEHA NO 2 5																										
KAMUELA 192.2	4.39	.08	7.31	3.09	8.34	4.07	13.52	9.63	2.90	.14	1.08	-.70	1.01	-1.63	.25	-2.83	1.19	-.11	1.95	-.34	1.57	-1.10	6.77	2.08	50.28	12.38
KANALAU CAMP 79	3.13		3.91		3.61		13.05		1.38		1.13		1.38		1.38		1.38		1.38		1.38		1.38		1.38	
KAPAPALA RANCH 36	11.22	2.21	7.27	.14	4.63	-2.71	15.98	10.88	7.13	3.12	2.84	-.74	3.85	1.74	1.29	-3.09	6.42	2.33	6.99	1.39	.70	-5.53	17.14	12.47	85.90	23.69
KAPALO LANDING 93.5	9.12		17.20		9.03		18.26		8.37		10.17		7.00		6.90		14.58		9.39		10.49		32.83		150.88	
KAPAHUA 88.1	7.01		6.96		12.13		47.26		8.76		11.68		10.39		12.71		12.83		9.36		6.77		27.51		173.37	
KAWAII LOWER LOR 93	6.73	-6.46	8.14	-6.53	52.31	-32.15	34.62	-13.64	24.42	-6.86	6.08	-4.39	9.92	-5.73	7.39	-9.56	7.94	-.21	3.19	-8.04	5.31	-6.13	31.27	13.00	197.42	-19.02
KEAU 92	7.66	-4.90	13.40	-1.17	12.10	-3.48	31.97	19.55	4.52	-5.36	8.67	.81	9.75	-.39	7.37	-4.38	15.73	6.68	5.62	-6.76	8.73	-5.20	32.59	16.42	158.31	13.16
KEALAKUA 26.2	5.75		2.94		1.86		10.51		2.41		2.37		7.09		5.83		8.32		3.19		1.27		7.95		99.49	
KEHEHA 181.2	11.42	1.10	11.69	1.63	22.67	9.97	24.40	11.78	7.67	-1.44	5.61	-1.74	4.10	-5.45	4.25	-4.94	5.49	-.62	4.50	-1.65	5.50	-2.79	16.19	3.25	123.49	10.34
KEHEHA RESERVOIR 176.1	4.95		6.55		22.20		16.87																			
KIOLAKA & C F 6	13.10	5.71	3.29	3.99	5.30	-.75	12.60	7.43	5.10	.06	4.10	-1.08	12.00	6.52	2.06	-4.51	4.33	-1.59	11.60	6.35	4.20	-2.38	17.70	13.23	95.38	25.00
KIOLAKA 89.2	4.73		10.81		16.05		48.25		8.66		14.07		12.30		12.58		13.64		9.29		6.32		27.17		186.17	
KOHALA 179.1	7.61	2.84	6.83	.35	15.05	-.93	16.70	25.54	6.08	-.47	3.30	-2.79	4.08	-.47	5.30	-2.79	4.08	-1.31	7.03	-3.36	4.41	-3.14	32.04	2.77	68.45	11.77
KOHALA MAUILLI 176	8.00	1.67	7.17	.21	18.77	9.99	19.82	10.33	3.37	-3.36	3.51	-1.67	3.78	-3.24	3.10	-3.84	2.65	-1.24	2.19	-3.89	1.38	-5.00	15.36	6.11	89.52	6.01
KOHALA MISSION 175.1	7.82	2.36	6.48	1.34	17.83	11.32	16.37	9.59	2.49	-2.26	3.18	-.50	4.77	-.43	3.07	-2.60	1.74	-1.20	1.79	-2.77	3.57	-1.45	9.46	2.21	78.57	15.01
KOIAWE LOWER 96.3	4.39	-4.52	5.74	-4.60	30.57	17.74	18.13	4.83	14.64	6.14	4.40	-2.26	4.51	-5.42	4.24	-6.84	4.07	-.26	2.69	-4.30	3.35	-3.55	17.26	5.43	115.79	2.39
KONA AIRPORT 68.3	3.87		3.19		1.70		5.50		2.54		1.85															

Table 3

TEMPERATURE EXTREMES

HAWAII
1968

Station	Highest	Date	Lowest	Date	Station	Highest	Date	Lowest	Date
* * *					* * *				
ISLAND OF KAUAI					ISLAND OF MAUI				
KANALOHULUHULU 1075	80	10- 7+	38	2- 7	HALEAKALA RS 338	74	6-24+	32	12-26
KILAUEA POINT 1133	91	10-12+	55	2-23	HALEAKALA SUMMIT 338.4	68	10-22+	-	-
LIHUE WB AP 1020.1	86	8-23	56	2-10+	HANA AIRPORT 355	89	8-29+	57	4-10+
MAKAHUENA POINT 940.1	93	10- 4	58	1-25	KAANAPALI AIRPORT	91	9-19+	59	1-14+
MANA 1026	93	7-22	56	2-24	KAHULUI WB AP 398	95	9- 1	55	2-10+
NIU RIDGE 1035	88	9- 2	53	3-21	KAILUA 446	88	9-18	55	4-11+
WAIAMI LOWER 1054	89	9- 8	50	12-28+	KEAWAKAPU BEACH 260.2	95	10-29	-	-
* * *					KULA SANATORIUM 267	81	2-22	46	12-30
ISLAND OF OAHU					LAHAINA 361	92	10-17+	59	12-31+
EWA PLANTATION 741	92	8-18	56	1- 9	WAILUKU 392	92	11-14+	54	1-10
HONOLULU WBFC 703	92	10-14+	59	12-30+	* * *				
HONOLULU SUBSTA 704	88	10-13+	63	1-29	ISLAND OF HAWAII				
KAHUKU 912	90	9- 4+	56	2-12	HAINA 214	89	10- 2	56	2-10+
KANEDHE MAUKA 781	90	10-11	60	12-27	HAWAII VOLCNS NP HQ 54	81	8-22	42	4-11
LUALUALEI 804	93	9- 4	60	12-27+	HILD WB AIRPORT 87	92	2-20	60	12-12+
MAKAPUU POINT 724	90	9- 2	61	12-27+	KAINALIU 73.2	85	10-12+	50	12-26
OPAEULA 870	91	8-18	-	-	KAMUELA 192.2	84	10- 3	44	2-12+
PRI WAHIAWA 820.2	91	10-23+	53	2-12	KAMUELA AIRPORT 191	83	10- 3	39	2- 2
WAIALUA 847	92	9-20+	56	2- 7+	KEAAU 92	89	11-12+	58	5-13+
WAIKIKI 717.2	93	9-22	56	1-31+	KEALAKEKUA 26.2	86	10-12	54	1-13
* * *					KOHALA MISSION 175.1	91	10-12	60	2-10+
ISLAND OF MOLOKAI					KONA AIRPORT 68.3	89	9-19+	61	5-19+
MOLOKAI AP 524	89	9- 2	57	2-10	KULANI CAMP 79	-	-	33	12-31
* * *					MAUNA KEA BEACH 98	98	9-15	53	3-24
ISLAND OF LANAI					MAUNA LOA SLOPE OBS	65	8-28	25	1-29
LANAI CITY 672	85	11-13+	56	4-10+	MOUNTAIN VIEW 91	86	10-11	50	1- 9
					NAALEHU 14	88	5-13+	56	1-10
					OOKALA 223	90	10-12	54	2- 1
					OPIHIHALE 2 24.1	87	9-16+	52	1-30+
					PAHALA 21	87	9-15	56	5- 5+
					UPOLU POINT USCG 159.2	92	8-15	61	2-12+

TOTAL EVAPORATION AND WIND MOVEMENT

HAWAII
1968

Table 4

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
* * * ISLAND OF KAUAI														
LIHUE WB AP 1020.1	EVAP	6.40	6.188	6.718	7.61	8.84	10.82	10.14	-	9.20	7.02	6.208	5.538	-
	WIND	3066	2746	4807	3957	3581	5103	4555	-	3742	2747	2943	2913	-
	MAX	79.8	81.9	79.0	84.6	87.1	88.6	89.5	-	93.4	90.9	88.6	81.1	-
	MIN	60.6	58.8	62.5	64.0	65.6	68.0	68.6	-	72.4	70.7	69.2	64.4	-
* * * ISLAND OF OAHU														
HONOLULU OBSERV 702.2	EVAP	3.598	3.85	4.84	6.37	7.33	8.418	9.15	9.44	7.97	5.808	4.908	3.658	75.30
	WIND	787	523	1099	985	901	1210	1050	1147	935	707	743	711	10798
	MAX	83.9	89.2	87.2	91.2	93.2	93.8	95.7	95.2	94.9	93.2	89.9	82.9	90.9
	MIN	65.0	65.0	66.0	68.2	69.2	70.4	71.8	71.5	72.2	71.9	69.4	65.8	68.9
* * * ISLAND OF HAWAII														
HILO WB AIRPORT 87	EVAP	3.83	5.118	4.53	4.858	7.09	5.138	6.138	5.538	5.118	6.058	5.318	-	-
	WIND	2243	1848	2253	1829	2155	16988	1398	1403	1317	1546	1535	15768	20801
	MAX	80.0	83.5	81.1	83.6	87.8	87.1	89.0	88.3	88.8	88.4	86.0	80.5	85.3
	MIN	63.5	64.3	65.9	65.7	66.8	68.1	68.3	68.7	68.8	67.6	66.4	65.5	66.6

CHANGES IN STATION NAME

NEW NAME	FORMER NAME	DATE
ISLAND OF OAHU		
EWA PLANTATION 741	EWA PLANTATION	DECEMBER 4, 1968
ISLAND OF HAWAII		
KOHALA 179.1	KOHALA 179A	FEBRUARY 1, 1968

RELOCATION AND CHANGES OF EQUIPMENT

ISLAND OF KAUAI		
WAHIAWA 930	EQUIPMENT MOVED 25 FEET SW	AUGUST 8, 1968
ISLAND OF OAHU		
CAMP 84 807	EQUIPMENT MOVED 3,000 FEET NW	NOVEMBER 21, 1968
EWA PLANTATION 741	EQUIPMENT MOVED 400 FEET S	DECEMBER 4, 1968
LUALUALEI 804	TEMPERATURE EQUIPMENT ADDED	APRIL 1, 1968
	EQUIPMENT MOVED 150 FEET NE	NOVEMBER 26, 1968
PUNALUU 884	STANDARD RAIN GAGE MOVED 190 FEET WSW	APRIL 22, 1968
ISLAND OF MAUI		
PUUOHOKU RANCH 542.1	STANDARD RAIN GAGE MOVED 90 FEET ESE	JANUARY 29, 1968
WAILUKU 392	STANDARD RAIN GAGE MOVED 25 FEET NW	JUNE 1, 1968
ISLAND OF HAWAII		
HONOHINA 137	STANDARD RAIN GAGE MOVED 45 FEET ESE	APRIL 1, 1968
KAUMANA 88.1	EQUIPMENT MOVED 30 FEET NW	MAY 1, 1968
KOHALA 179.1	EQUIPMENT MOVED 50 FEET SE	FEBRUARY 2, 1968
PUU LEHUA 73	EQUIPMENT MOVED 500 FEET ENE	APRIL 1, 1968

See Reference Notes Following Station Index

HAWAII
1968

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STATION INDEX

HAWAII
1958

STATION	Index No.	Division No.	DISTRICT	Drainage†	Latitude	Longitude	Elevation	Temp.	Precip.	Evap.	Years of record	Opened or closed during yr.	Refer to tables	STATION	Index No.	Division No.	DISTRICT	Drainage†	Latitude	Longitude	Elevation	Temp.	Precip.	Evap.	Years of record	Opened or closed during yr.	Refer to tables
ISLAND OF HAWAII														ISLAND OF HAWAII													
MAOULA 18	A 6407	03 KAU			3 19 11 155 30		600			49			2	PUU KIME 120	A 8393	01 MAHAKUA			1 19 54 155 24		7750				54		2
MOUNTAIN VIL. 91	A 6552	02 PUNA			2 19 33 155 07		1530	31		68			1 2 3	PUU LAU 102.1	A 8452	05 MAHAKUA			5 19 50 155 36		7440			36			2
NAALEHU 14	A 6588	03 KAU			3 19 04 155 35		673	14		79			1 2 3	PUU LEHUA 73	A 8460	04 N KONA			4 19 34 155 49		4880			45			2
NAPOOPOO 28	A 6697	04 S KONA			4 19 28 155 55		395			26			2	PUU MALI 113	A 8515	01 MAHAKUA			1 19 55 155 26		6960			36			2
NAULU FOREST 38+6	A 6731	02 PUNA			2 19 19 155 08		1400			4			2	PUUKUMAU 167	A 8548	01 N KOHALA			1 20 12 155 50		1800			41			2
NIULILI 119	A 6806	01 N KOHALA			1 20 14 155 45		75			83			2	PUU OO 82	A 8550	02 S HILO			2 19 44 155 23		6340			3			C
JOHALA 223	A 7131	02 N HILO			2 20 01 155 17		430	48		78			1 2 3	PUU MAWAA 94+1	A 8555	05 N KONA			5 19 47 155 51		2520			64			2
OPHIHALA 2 24+1	A 7166	04 S KONA			4 19 16 155 53		1270	11		12			1 2 3	SAULELE ROAD 1.84	A 8590	02 S HILO			3 18 57 155 41		2340			20			C
ORCHID LAND EST 91+5	A 7185	02 PUNA			2 19 14 155 00		445			6			2	SOUTH POINT CORRAL 3	A 8675	03 KAU			3 18 57 155 41		400			20			C
FAAHUA 217	A 7204	01 MAHAKUA			1 20 05 155 26		415			79			2	S POINT TRACKING STA	A 8679	03 KAU			3 18 57 155 41		305						C
PAUULO 221	A 7312	01 MAHAKUA			1 20 03 155 22		800			66			2	UMIKOA 118	A 8780	01 MAHAKUA			1 19 59 155 23		3420						2
PAHALA 21	A 7421	03 KAU			3 19 12 155 29		870	59		77			1 2 3	N POINT USCG 159.2	A 8830	01 N KOHALA			1 20 15 155 53		61		10	75			1 2 3
PAHOA 85	A 7457	02 PUNA			2 19 30 154 57		670			59			2	WAIKAE SCD 88.2	A 9025	02 S HILO			2 19 40 155 08		1050			16			C
PAKA 37	A 7643	03 KAU			3 19 22 155 28		5000			40			2	WAIANAKULA 178.6	A 9350	01 N KOHALA			1 20 08 155 47		3830						C
PAPAIOU 144+1	A 7711	02 S HILO			2 19 47 155 08		200			70			2														
PAPAIOU MAUKA 144+1	A 7721	02 S HILO			2 19 47 155 08		1270			43			2														
PEPEKEU MAKAU 144	A 8000	02 S HILO			2 19 51 155 05		100			78			2														
PIIHONUA 89	A 8051	02 S HILO			2 19 44 155 10		1730			43			2														
POHAULUA 147	A 8063	02 MAHAKUA			2 19 45 155 32		6511	31		31			2														C
PUAKO 95+1	A 8186	05 KOHALA			5 19 59 155 50		5			6			2														

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F, precipitation and evaporation in inches, and wind movement in miles.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min in Evaporation and Wind table refer to extremes of temperature of water in pan as recorded during 24 hours ending at time of observation.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are monthly averages of daily extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological normals based on the period 1931-1960. "DEP" in Table 4 refers to departures from long-term means based on periods varying from 10 to 29 years which are used in place of normals.

STATION NAMES: Figures and letters following the station name, such as 181.1, are Pineapple Research Institute gage numbers.

DELAYED DATA AND CORRECTIONS will be carried in the June and December issues of Climatological Data.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record.
- + Also on earlier date (dates) or months.
- * Amount included in following measurement.
- A The letter "A" shown following station name, (Table 2 and Station Index): Amounts carried in the monthly "Precipitation" column are for the period from last measurement of a preceding month through the last measurement of the current month. See Daily Precipitation Table of the monthly Climatological Data for the dates of measurement. Measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- E Amount is wholly or partially estimated.
- M One or more days record missing; if average value is entered, less than 10 days record is missing. See monthly Climatological Data for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month. V in annual column means total is for a two-year period.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- # Thermometers are generally exposed in a shelter located a few feet above sod covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
 - C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
 - S Storage precipitation station. Precipitation measurements, made at irregular intervals, will be published in the December issue of Climatological Data.
- Years of record as shown in the Station Index are approximate since gaps in the records may not have been considered in arriving at the totals shown.

The four-digit identification numbers in the Index are assigned on an island basis. There will be no duplication of numbers within an island.

Information concerning the history of changes in location, elevations, exposures, etc., of substations through 1957 may be found in the publication "Substation History" for this State. That publication may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402, for 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, obtained as indicated above, price 15 cents.

Subscription Price 20 cents per copy, monthly and annual; \$2.50 per year (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittances and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

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